# FOIA.

# JULIUS ROSENBERG ET AL.

FILE DESCRIPTION Philade labia FILE SUBJECT Momas & Black FILE NO. 65-4332-1-6-14 VOLUME NO. BULKIES SERIALS 1-B-14 -B-14(34)

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### JULIUS ROSENBERG, et al.

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#### JULIUS ROSENBERG, et al.

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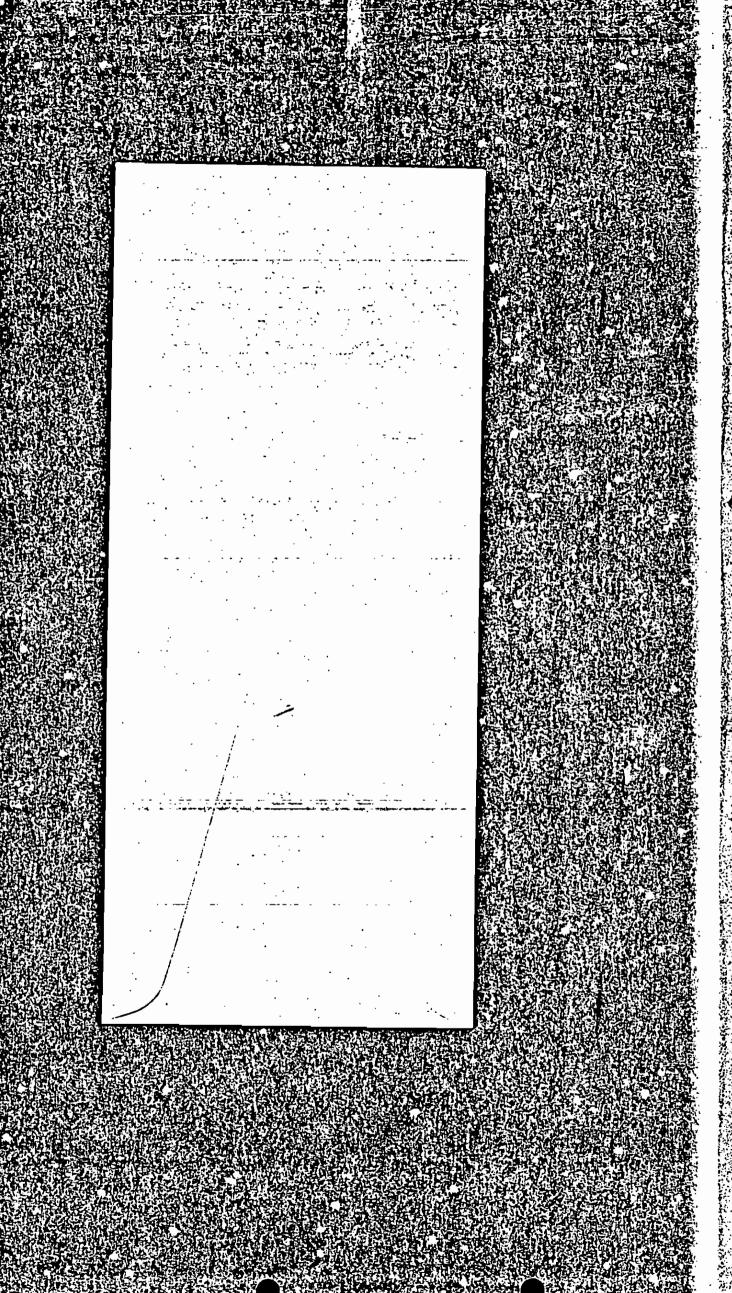
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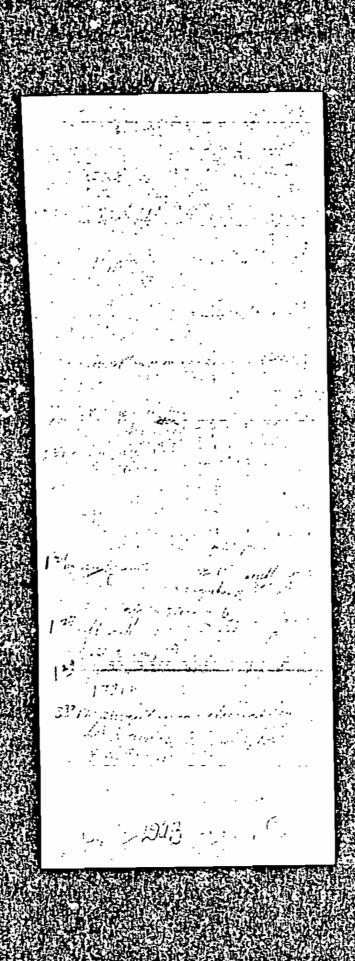
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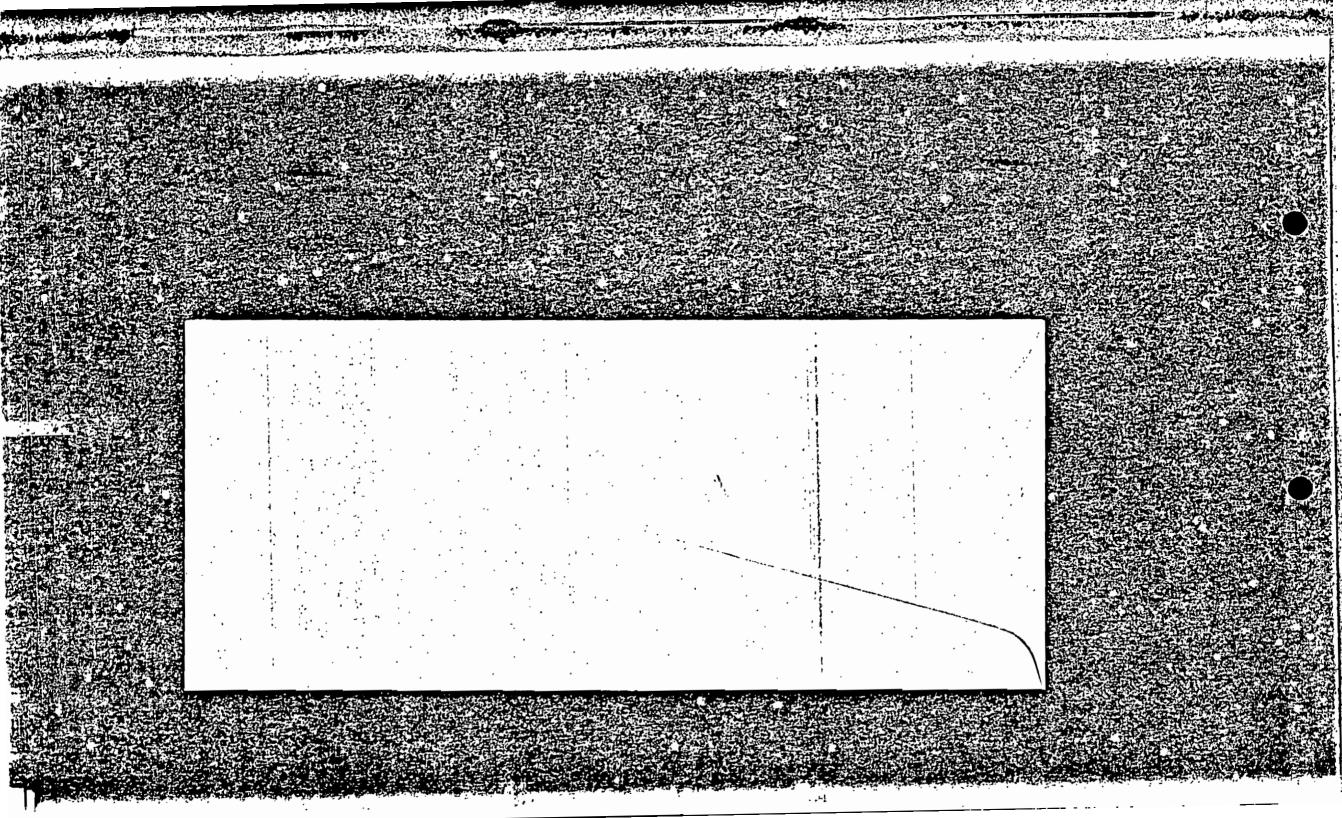
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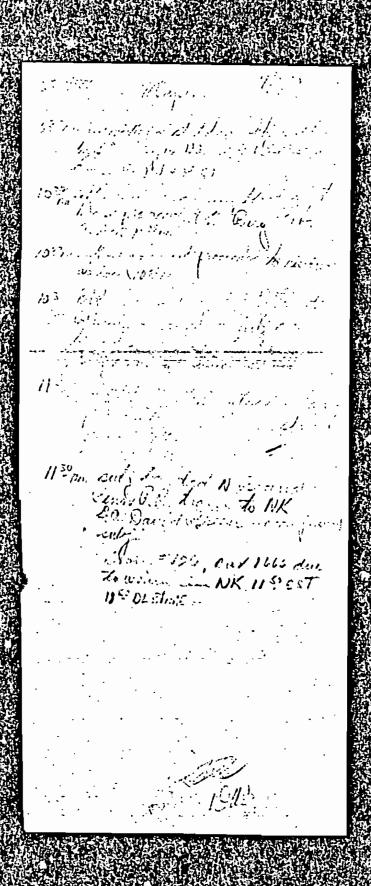
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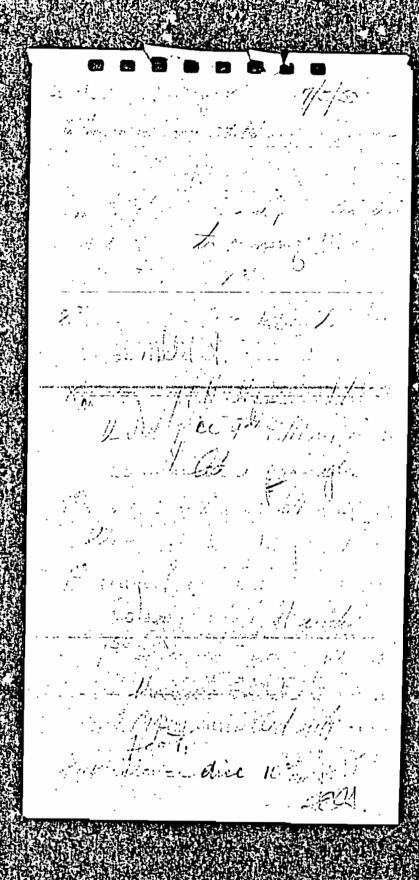


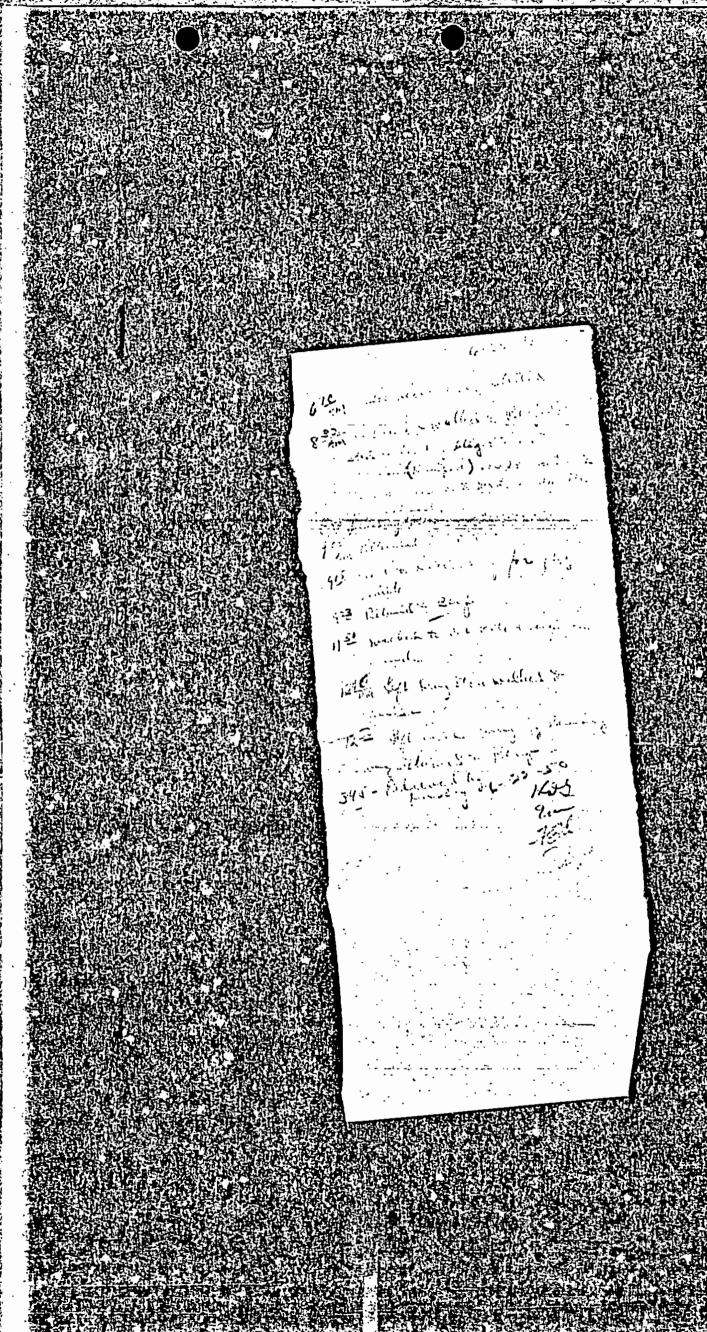
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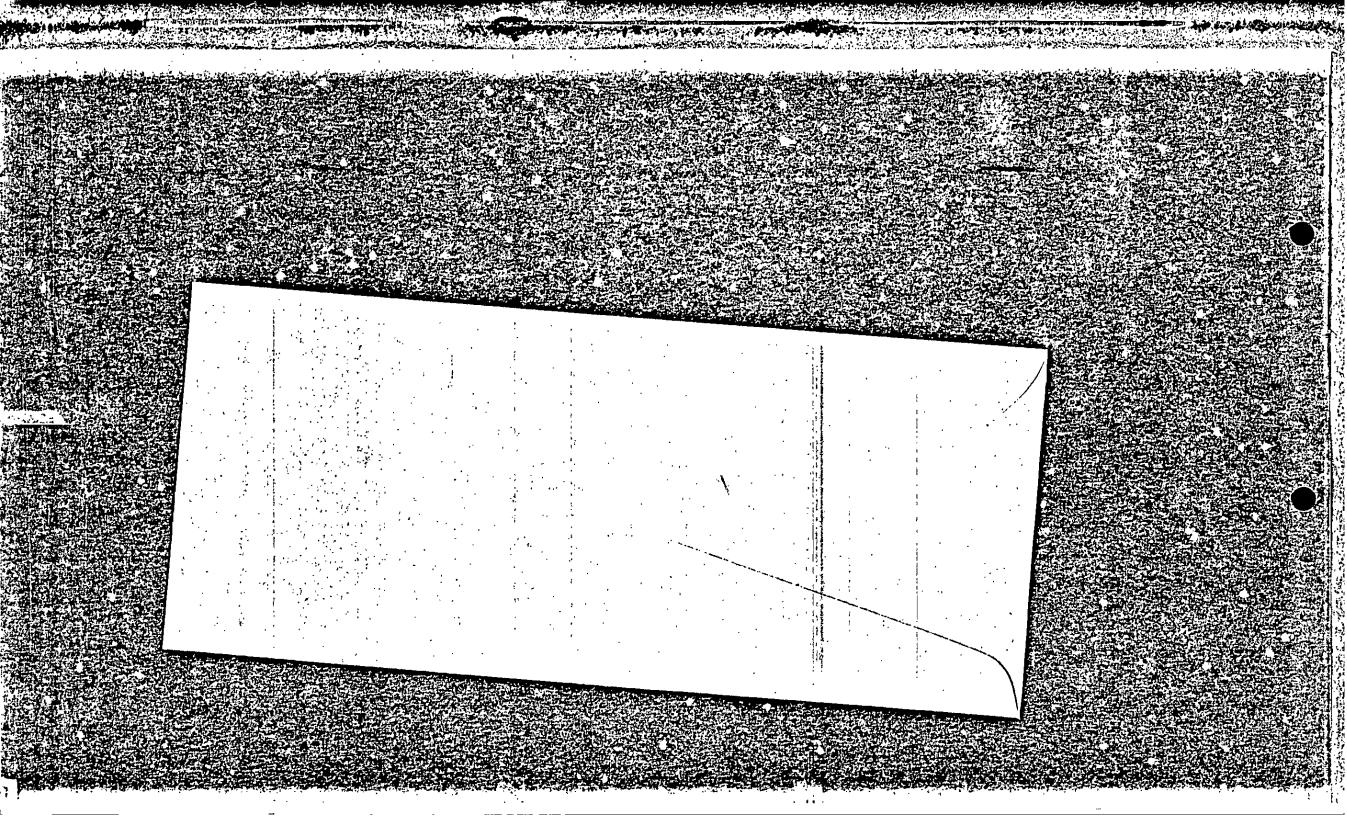




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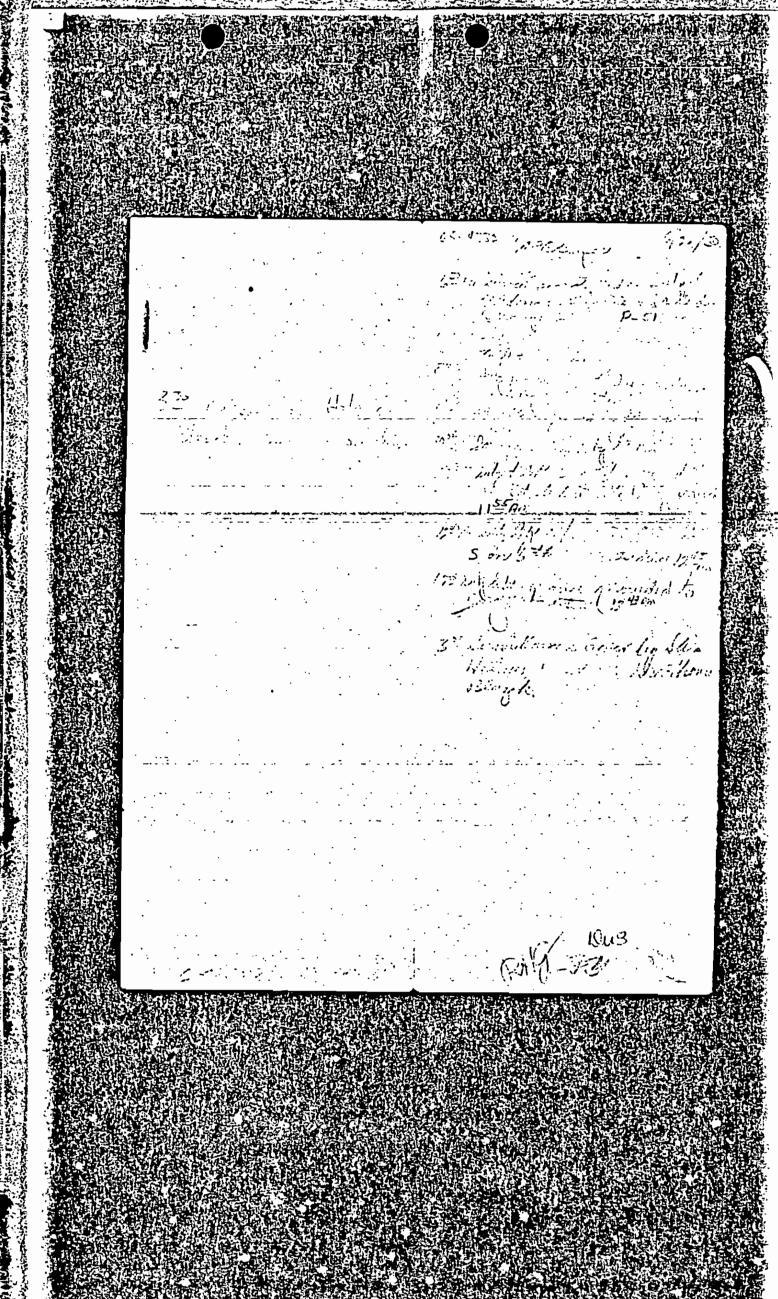
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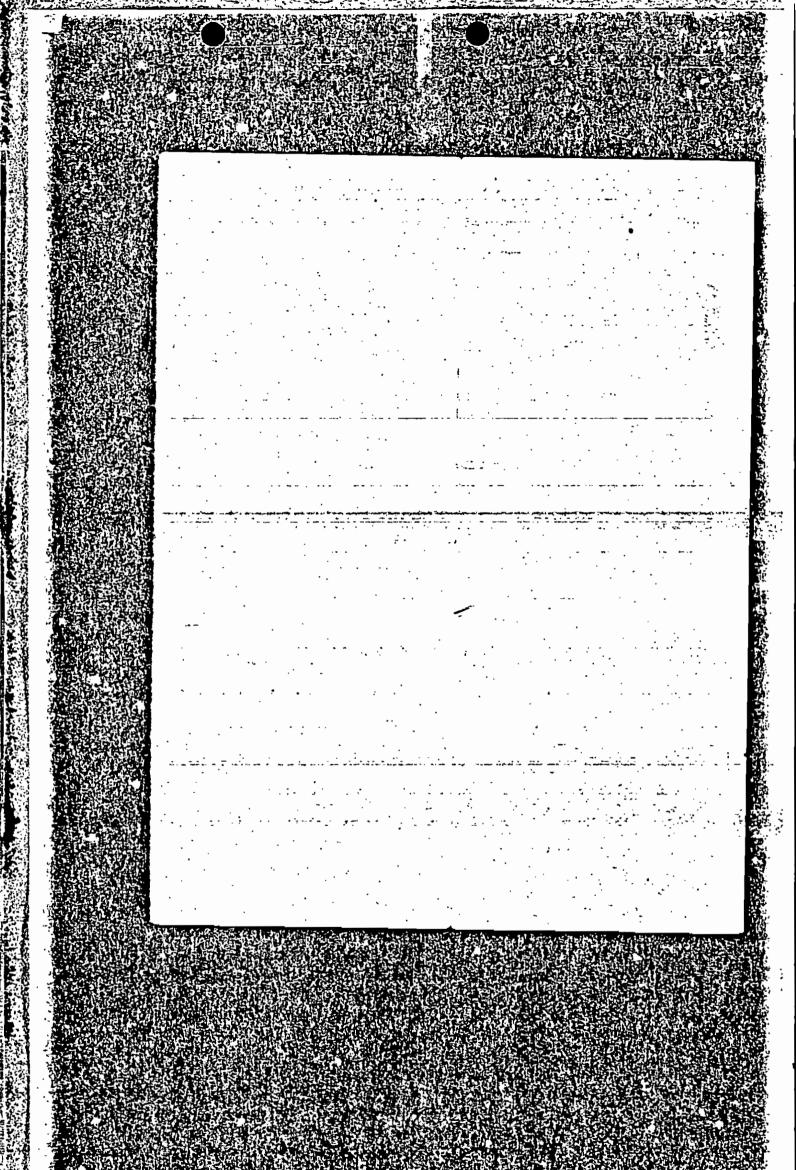
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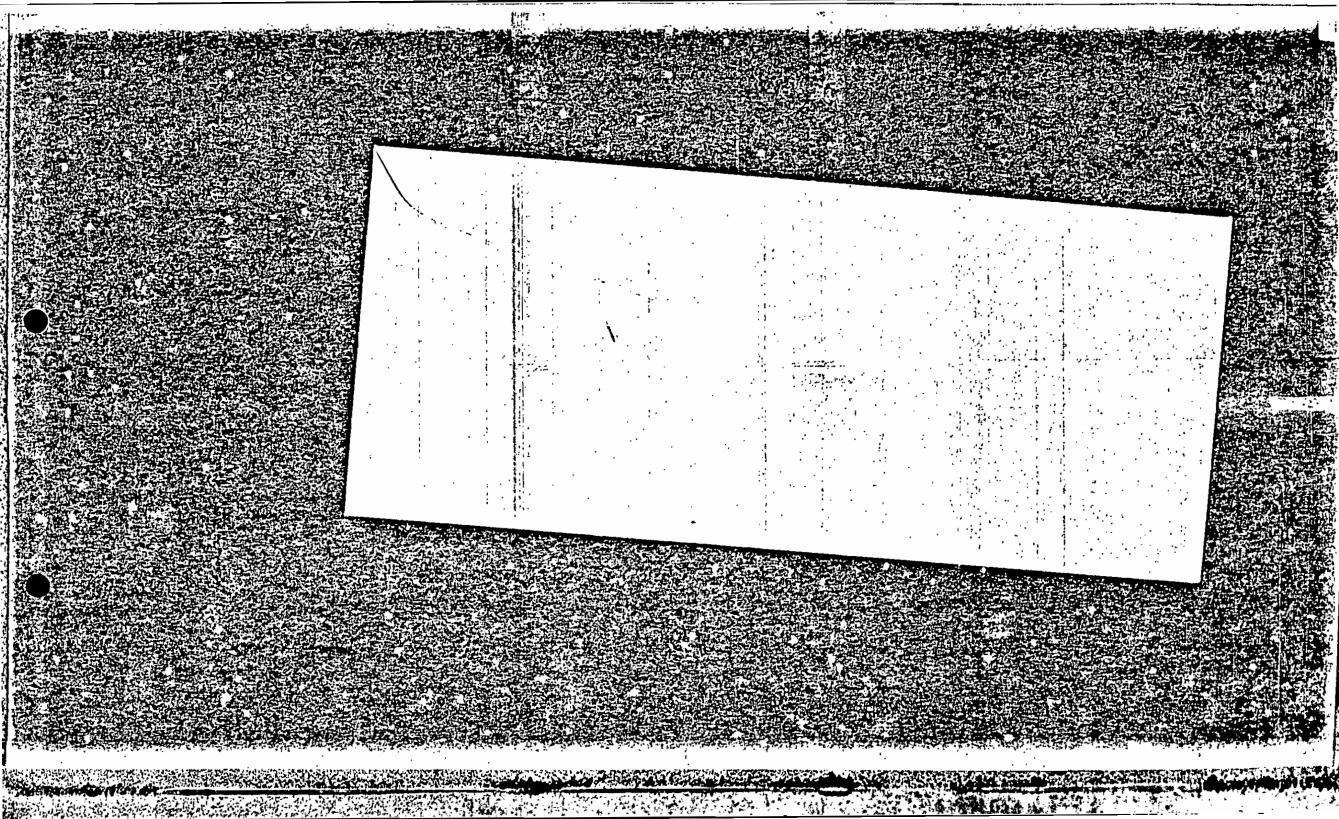
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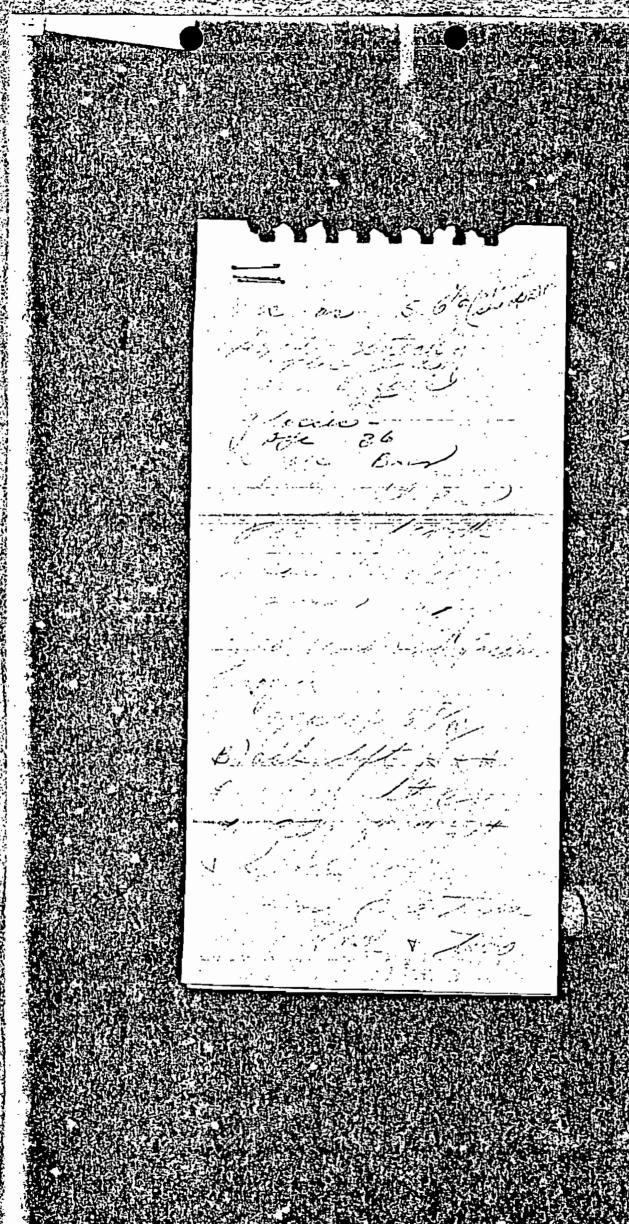
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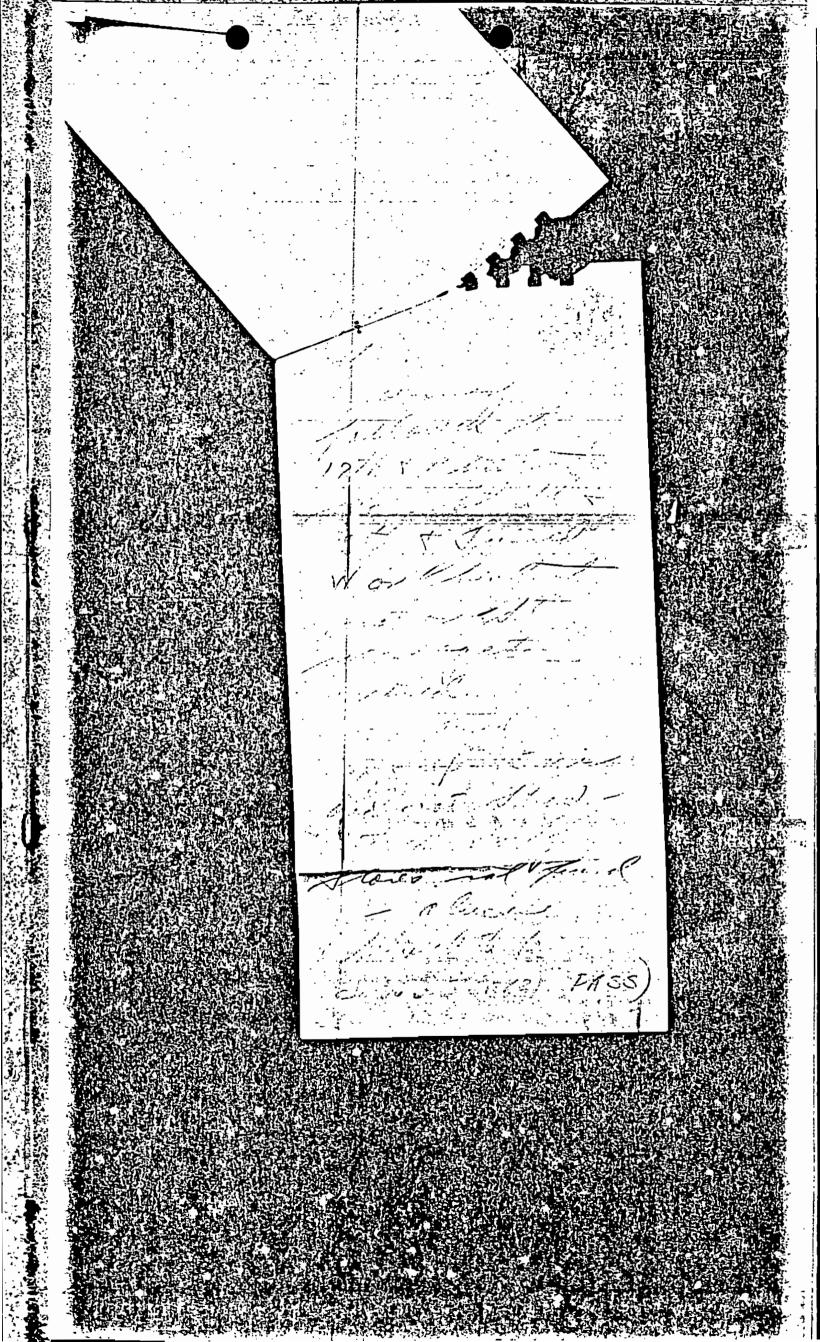
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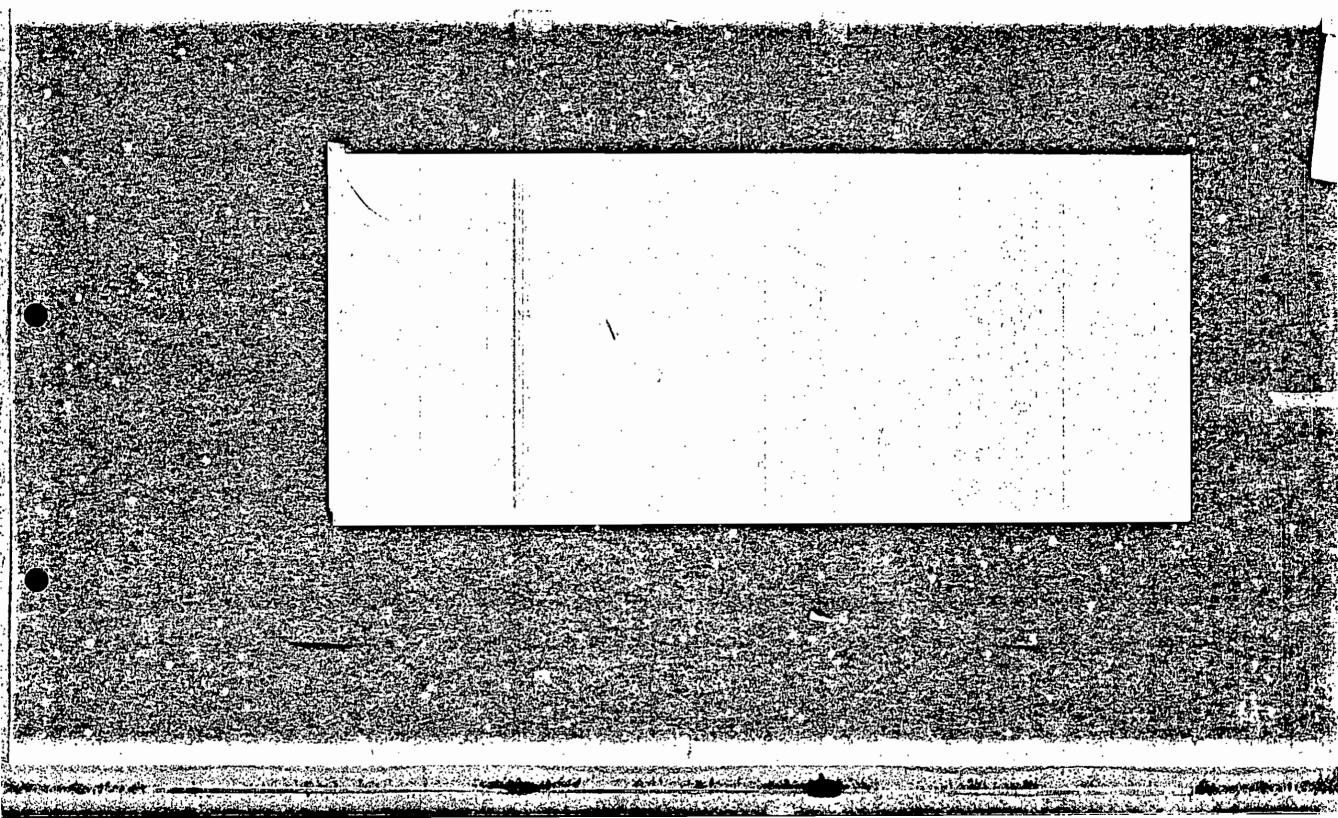
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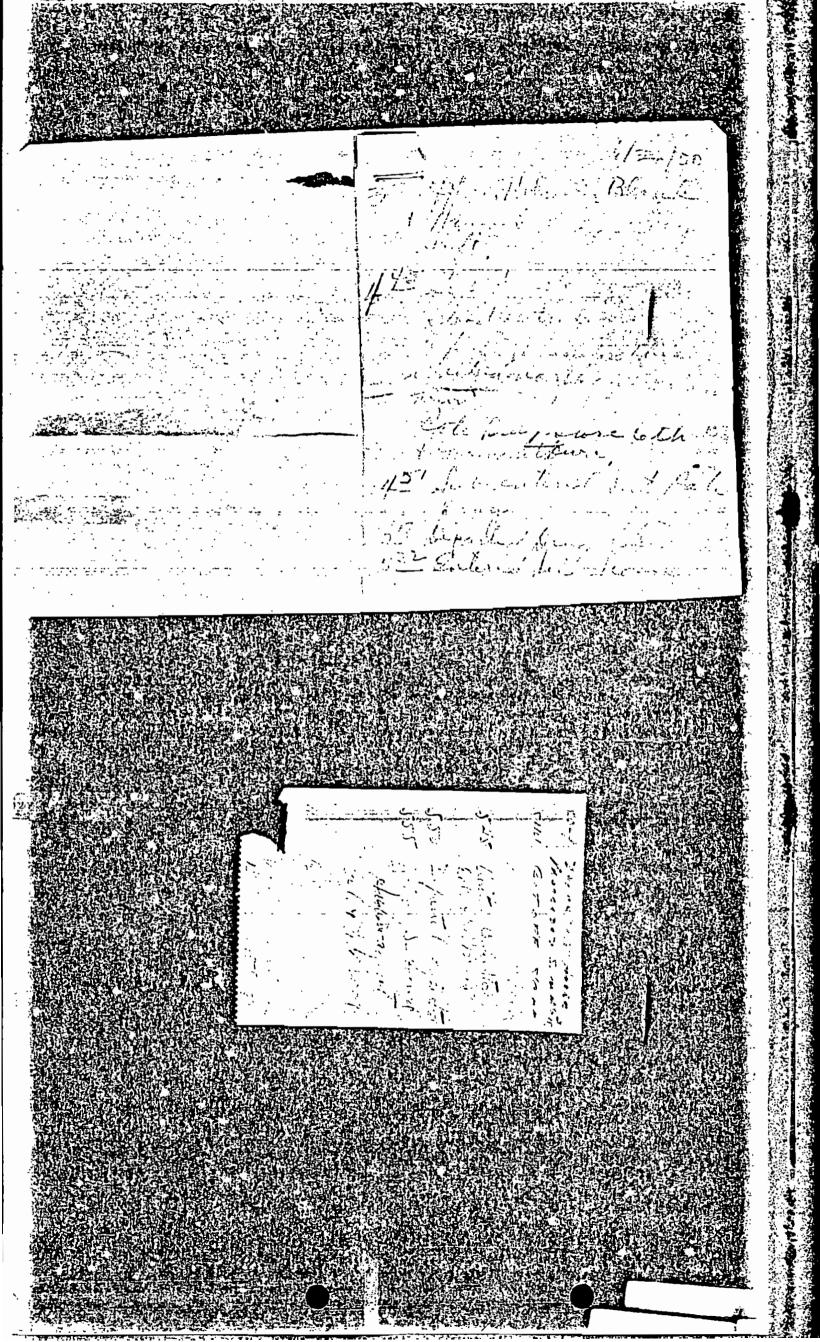
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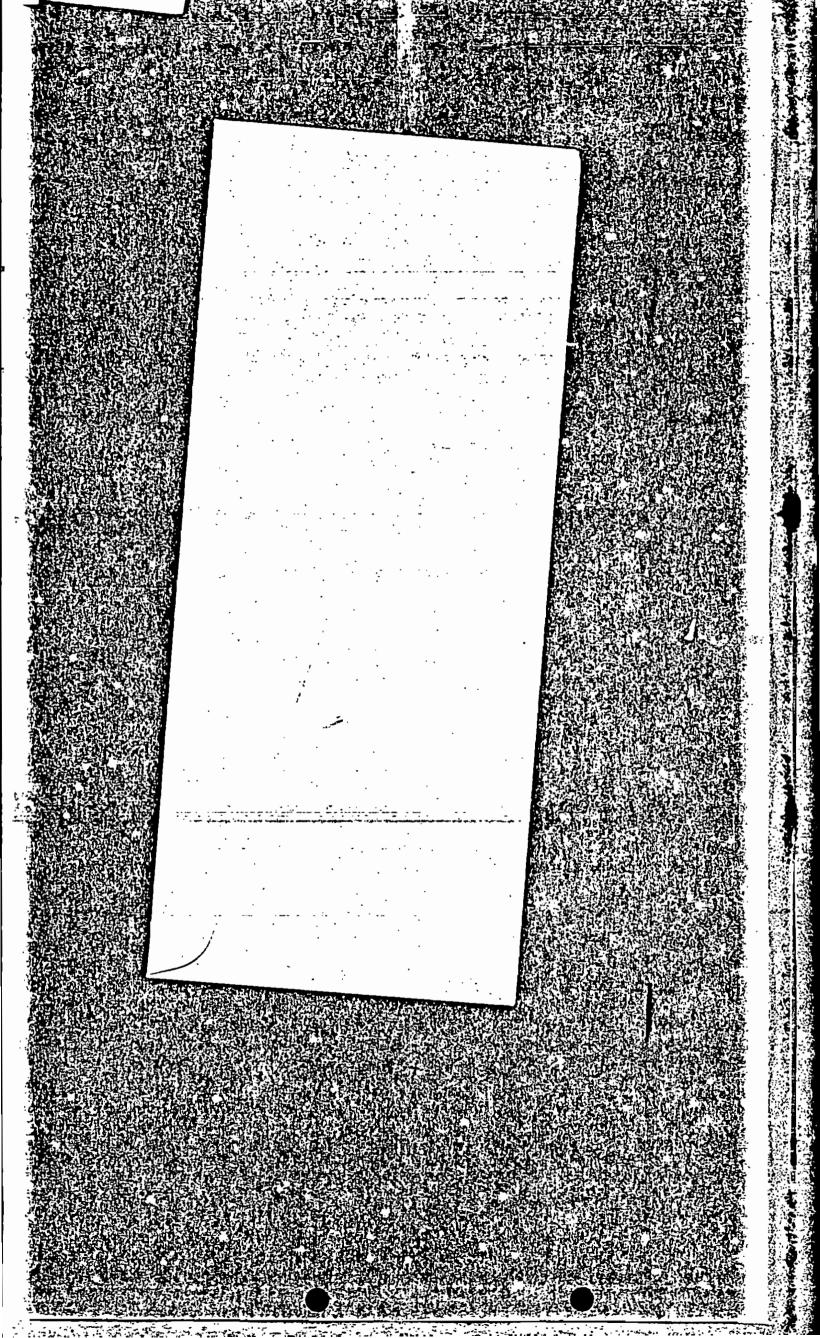
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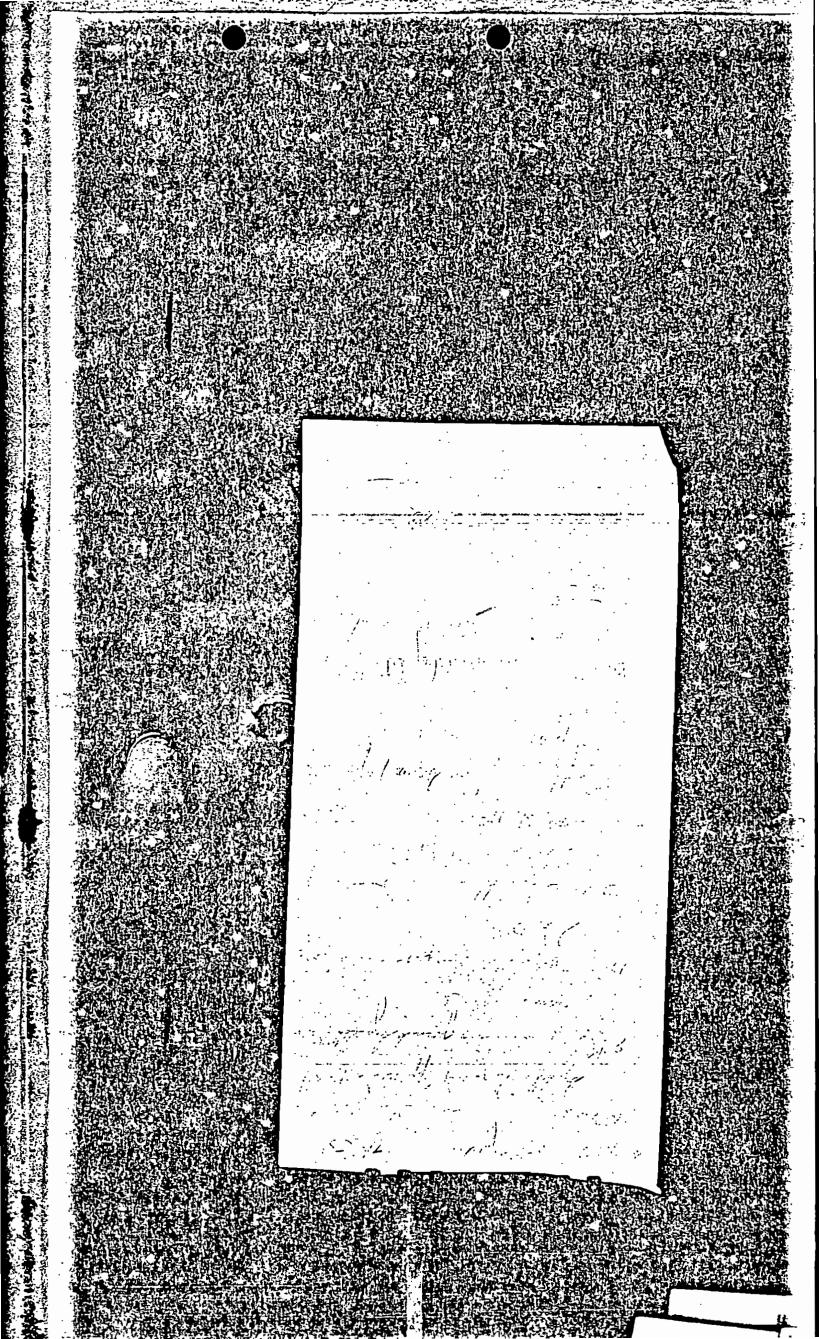
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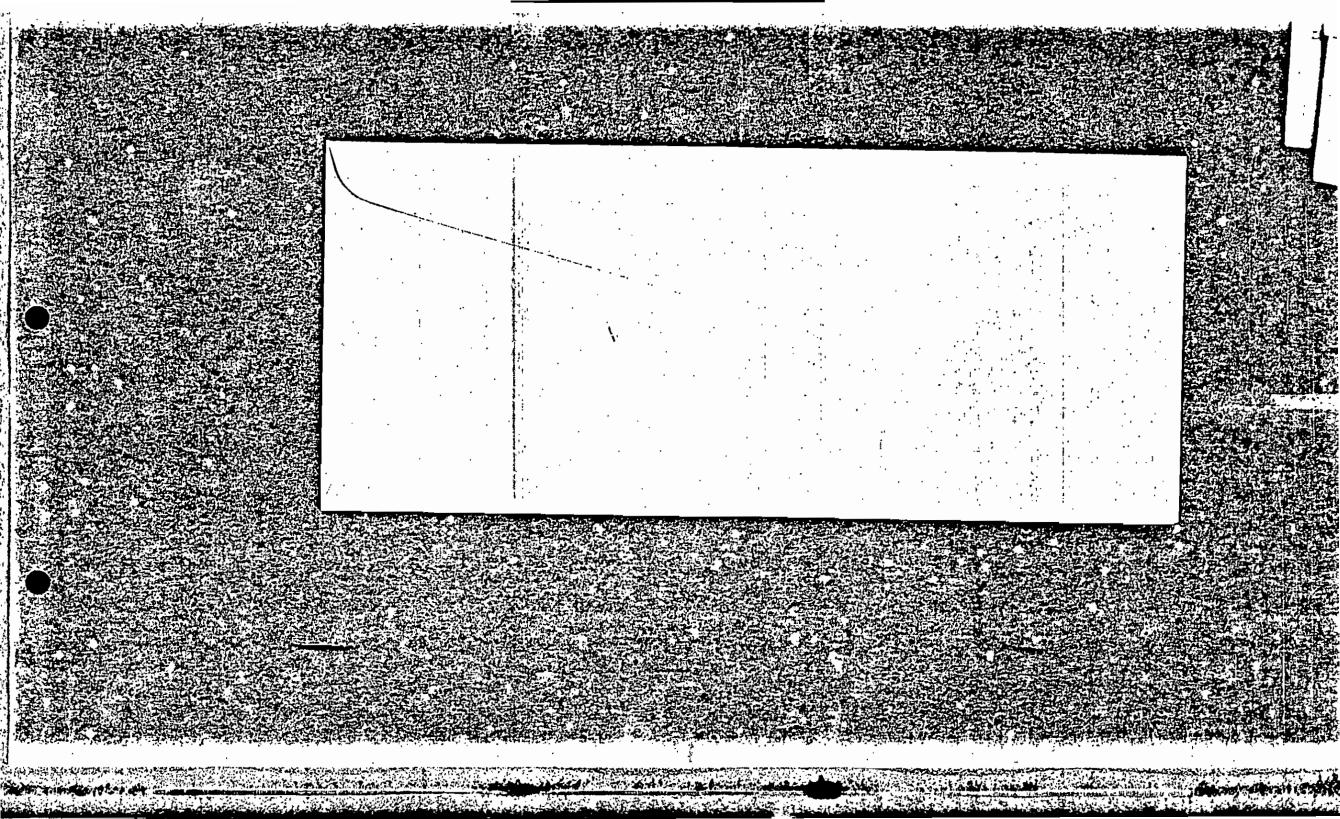
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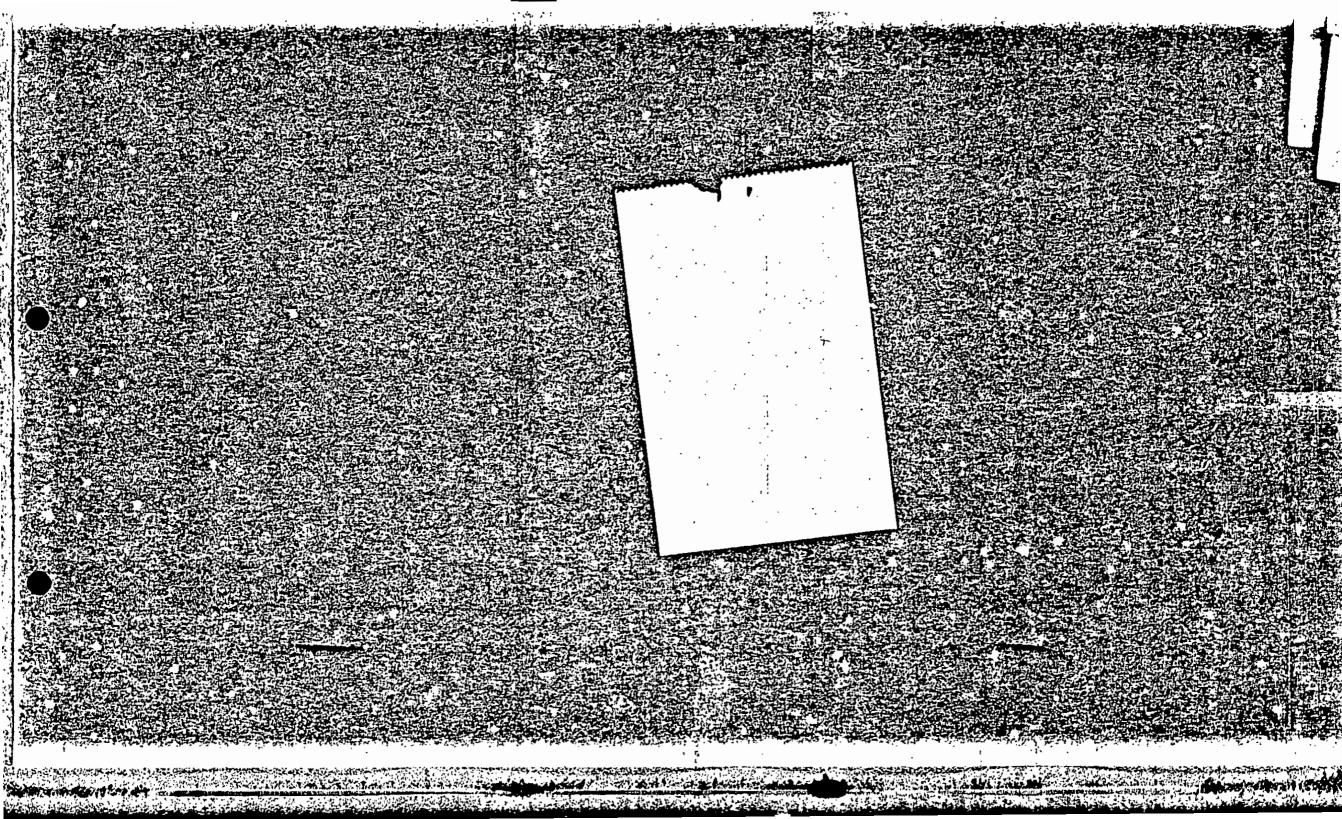
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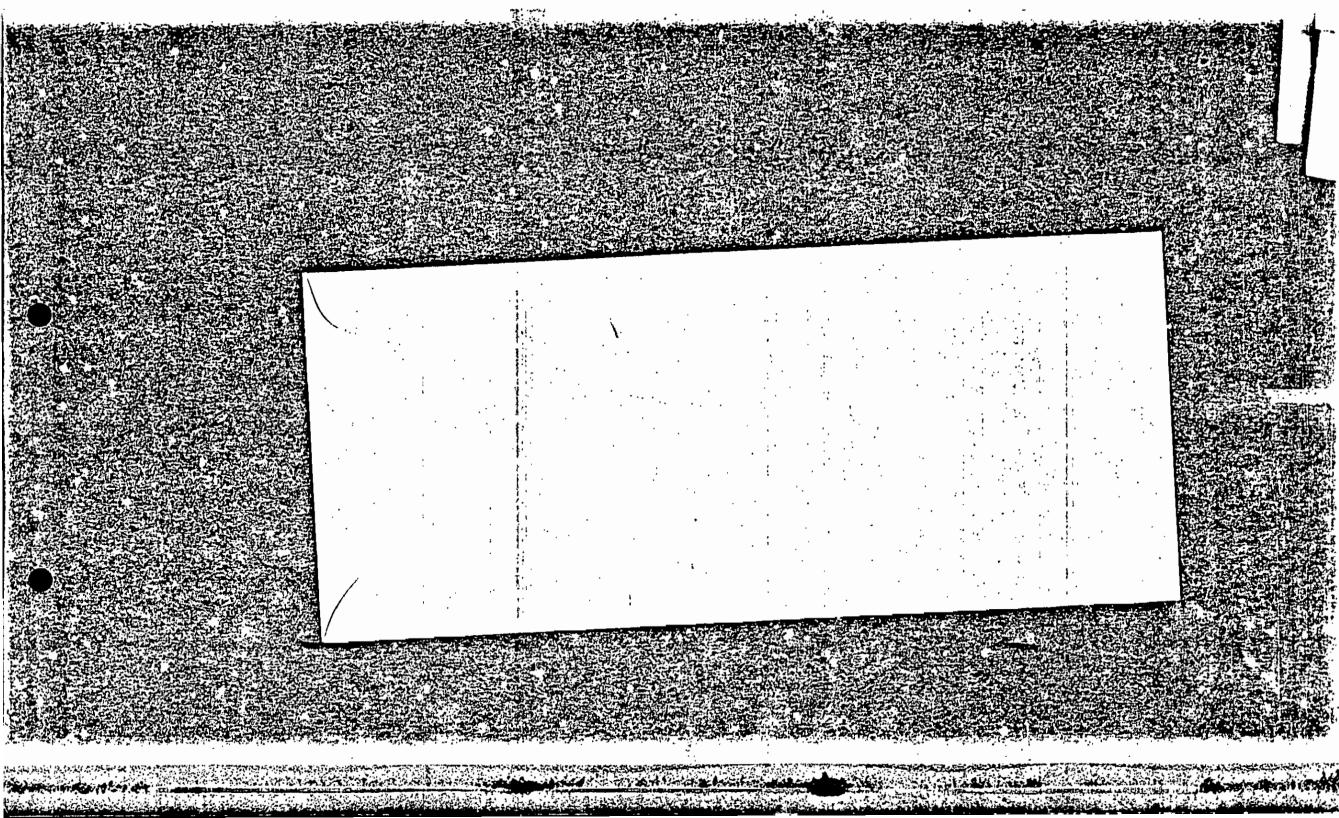


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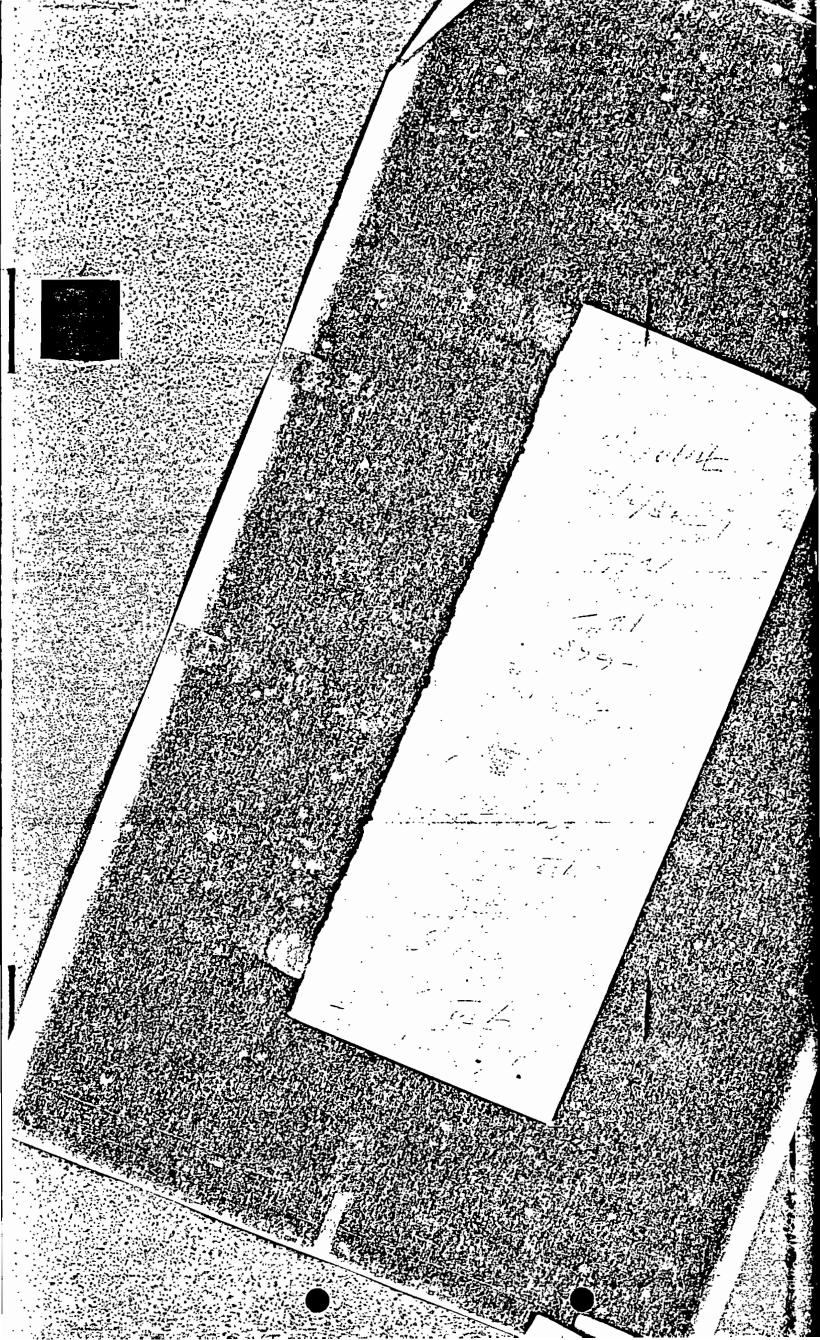
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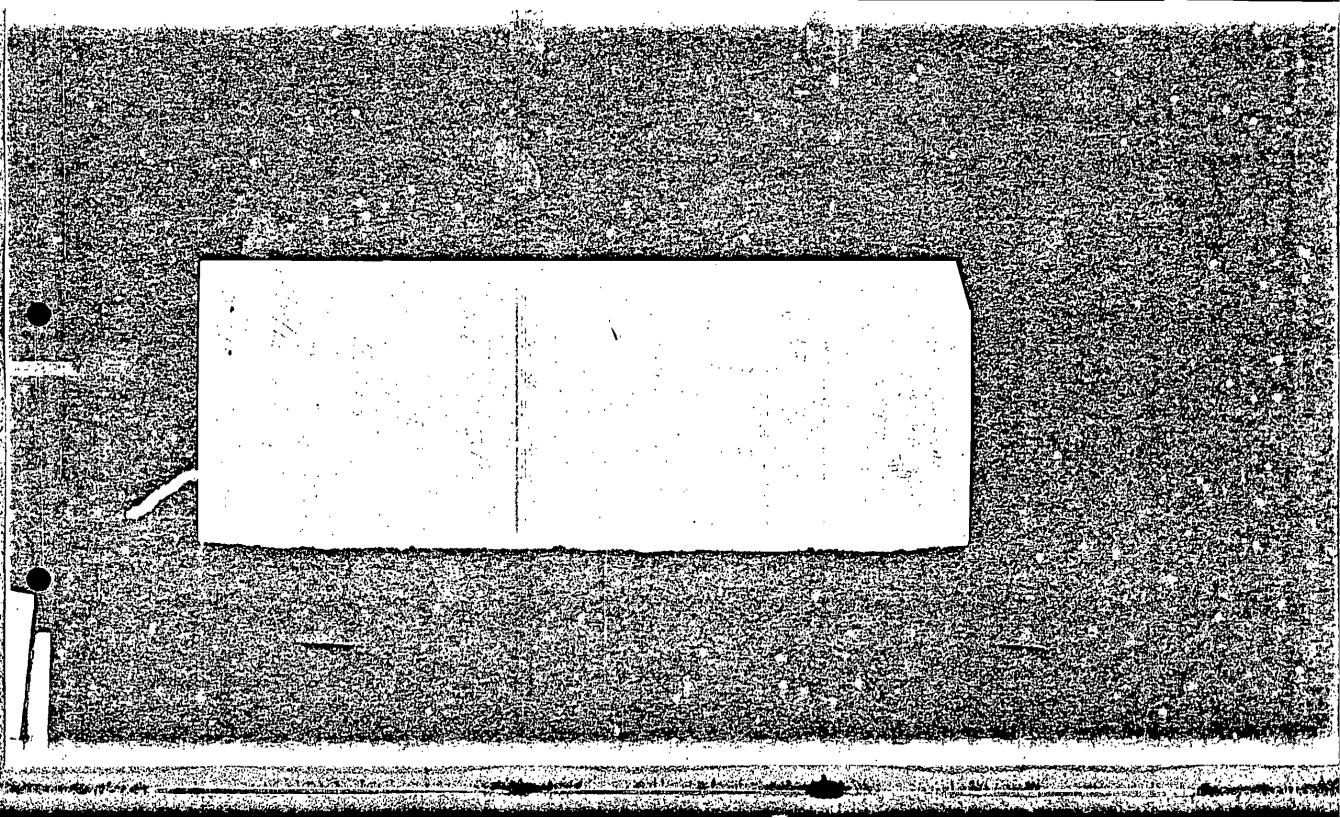
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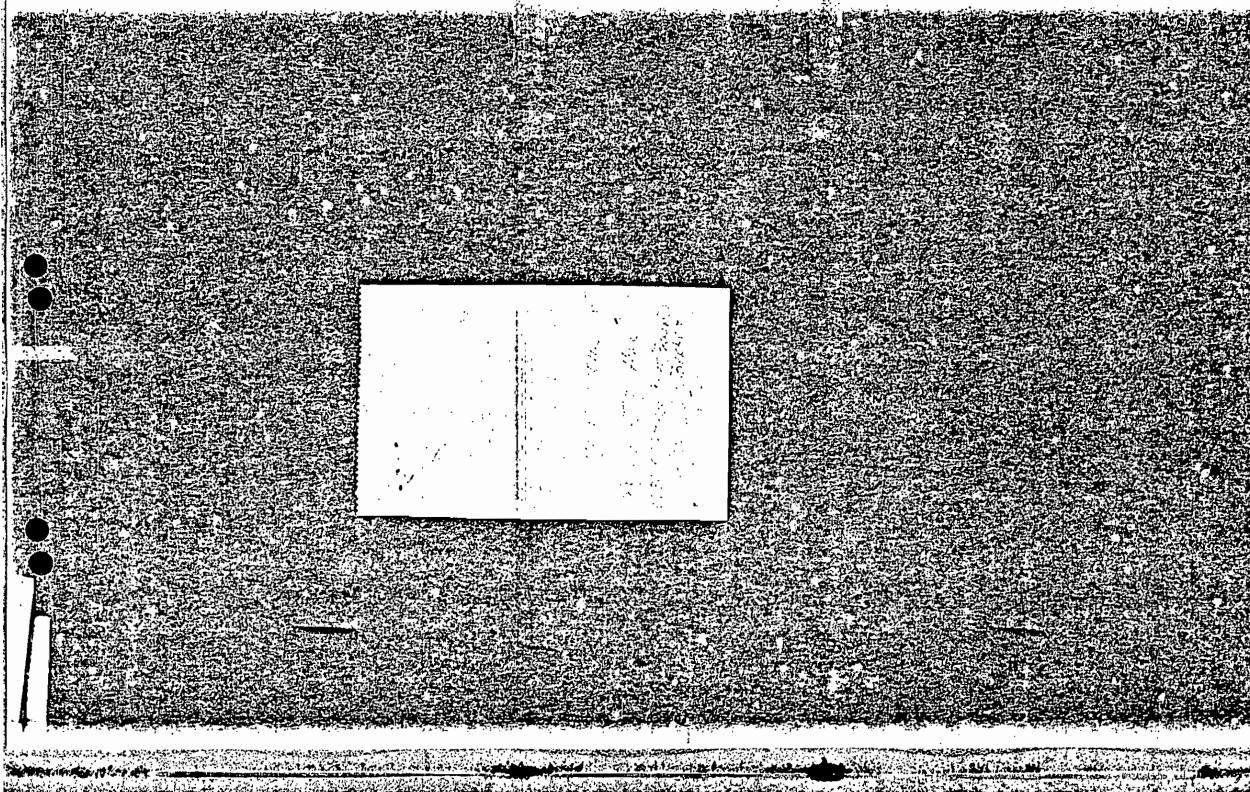
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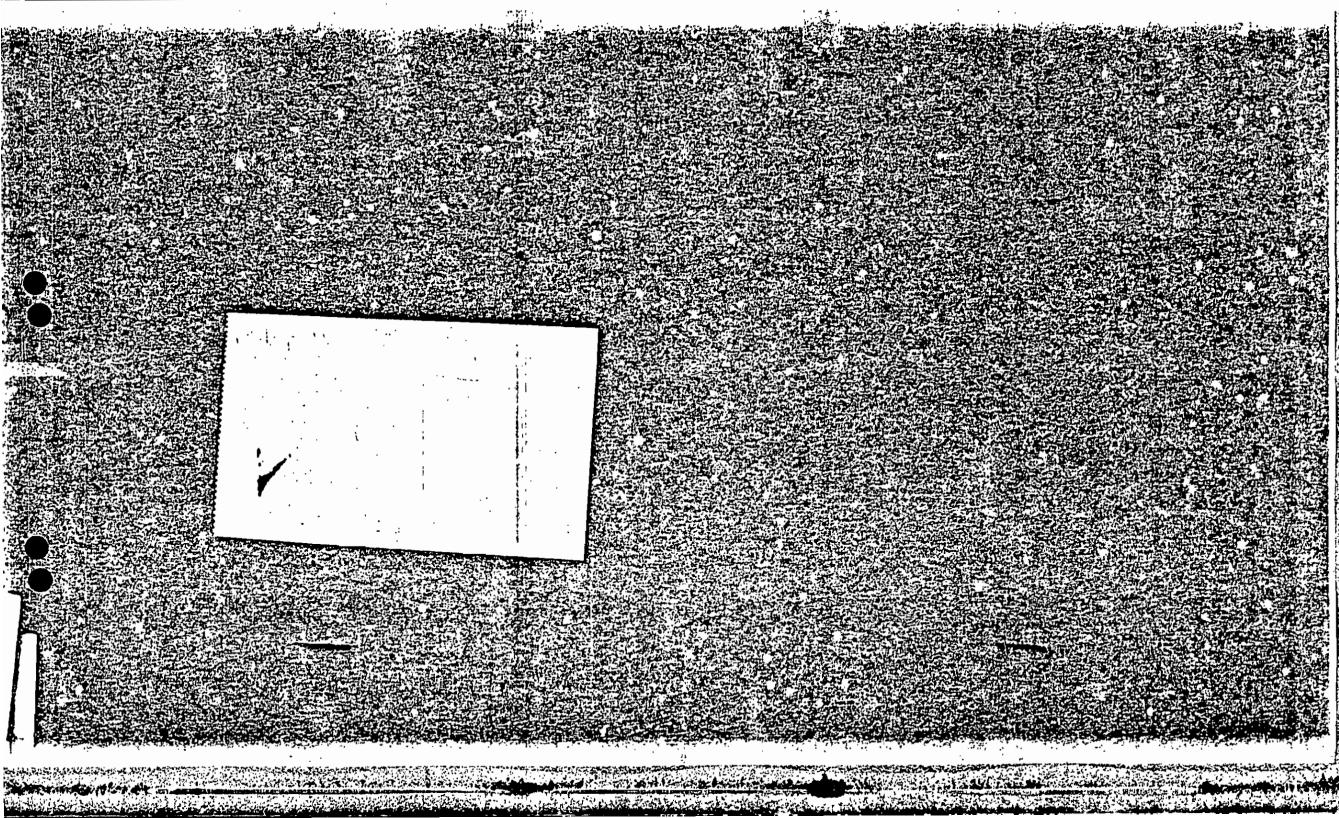


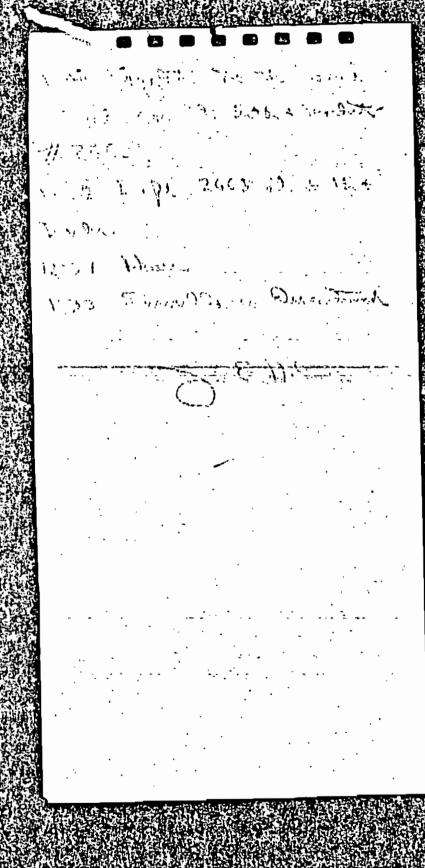
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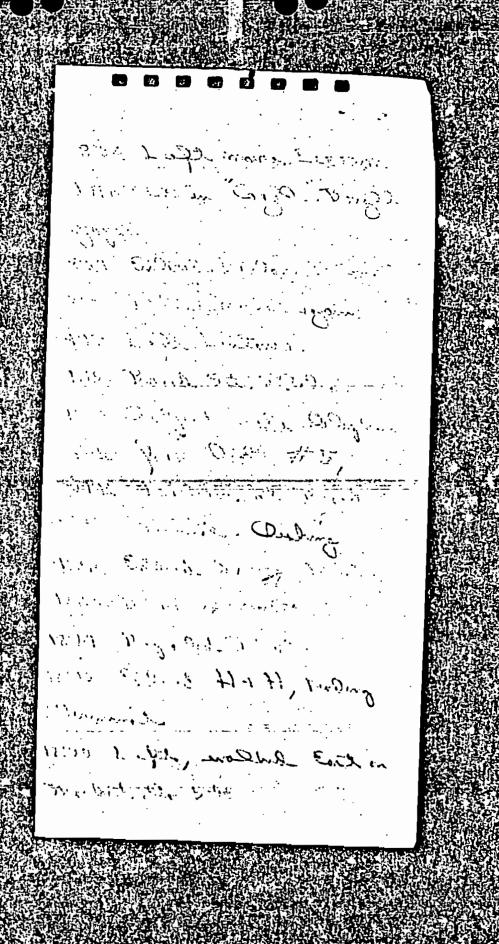




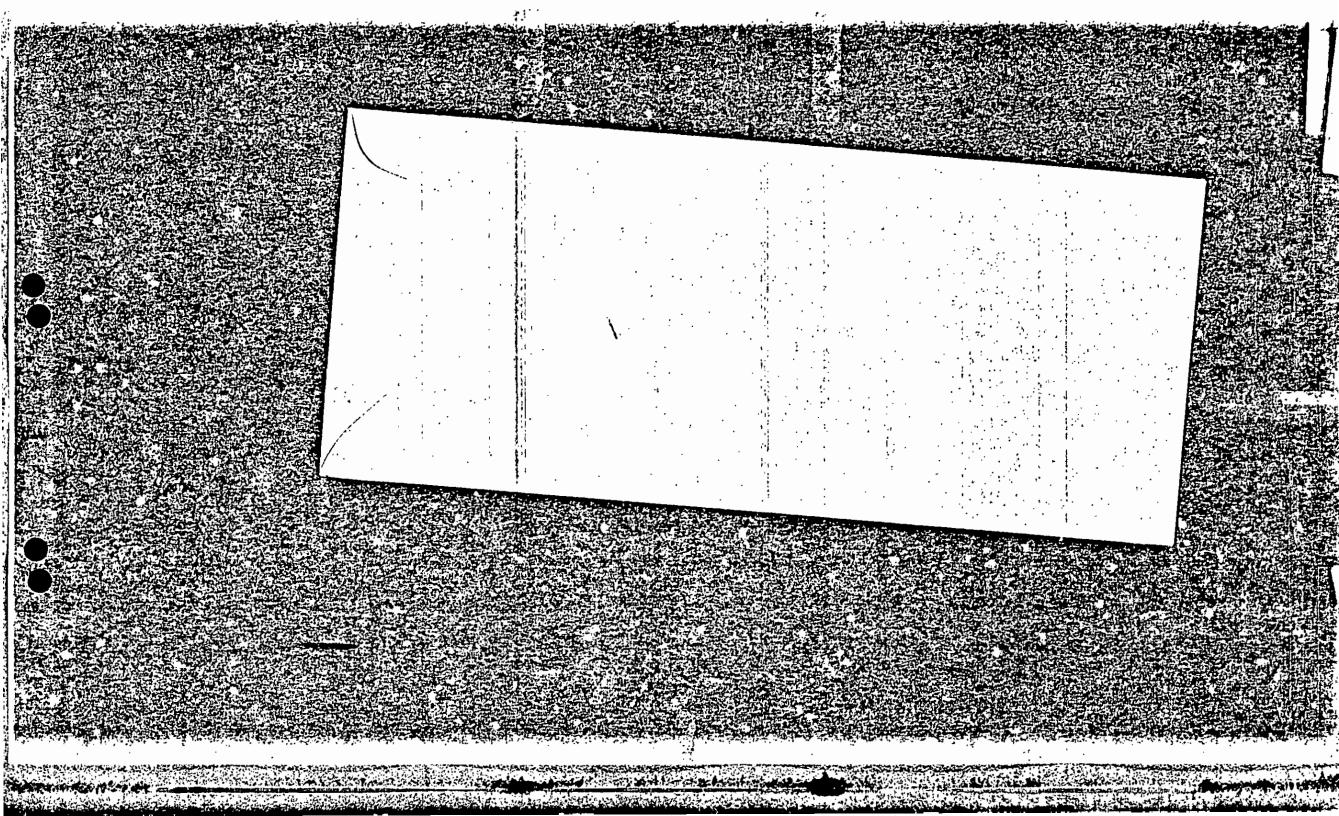




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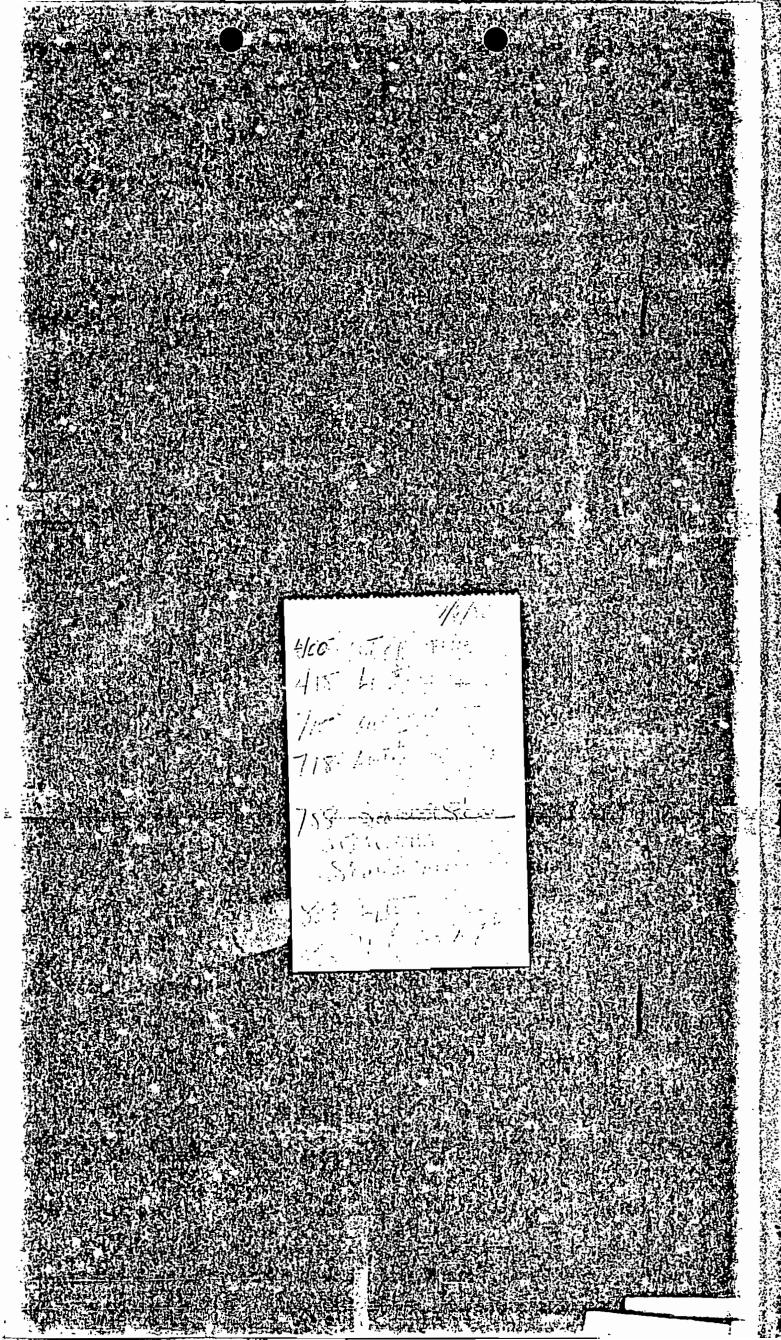
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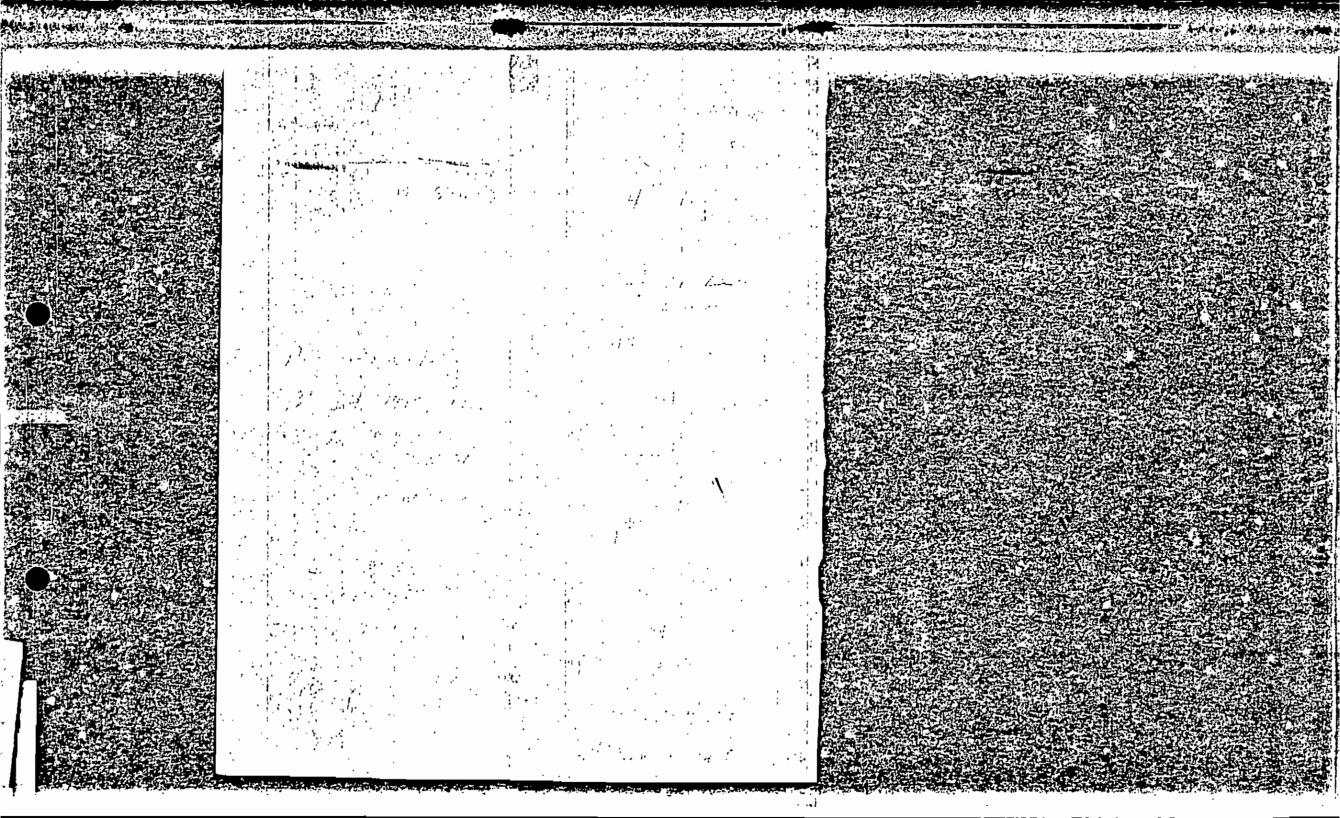
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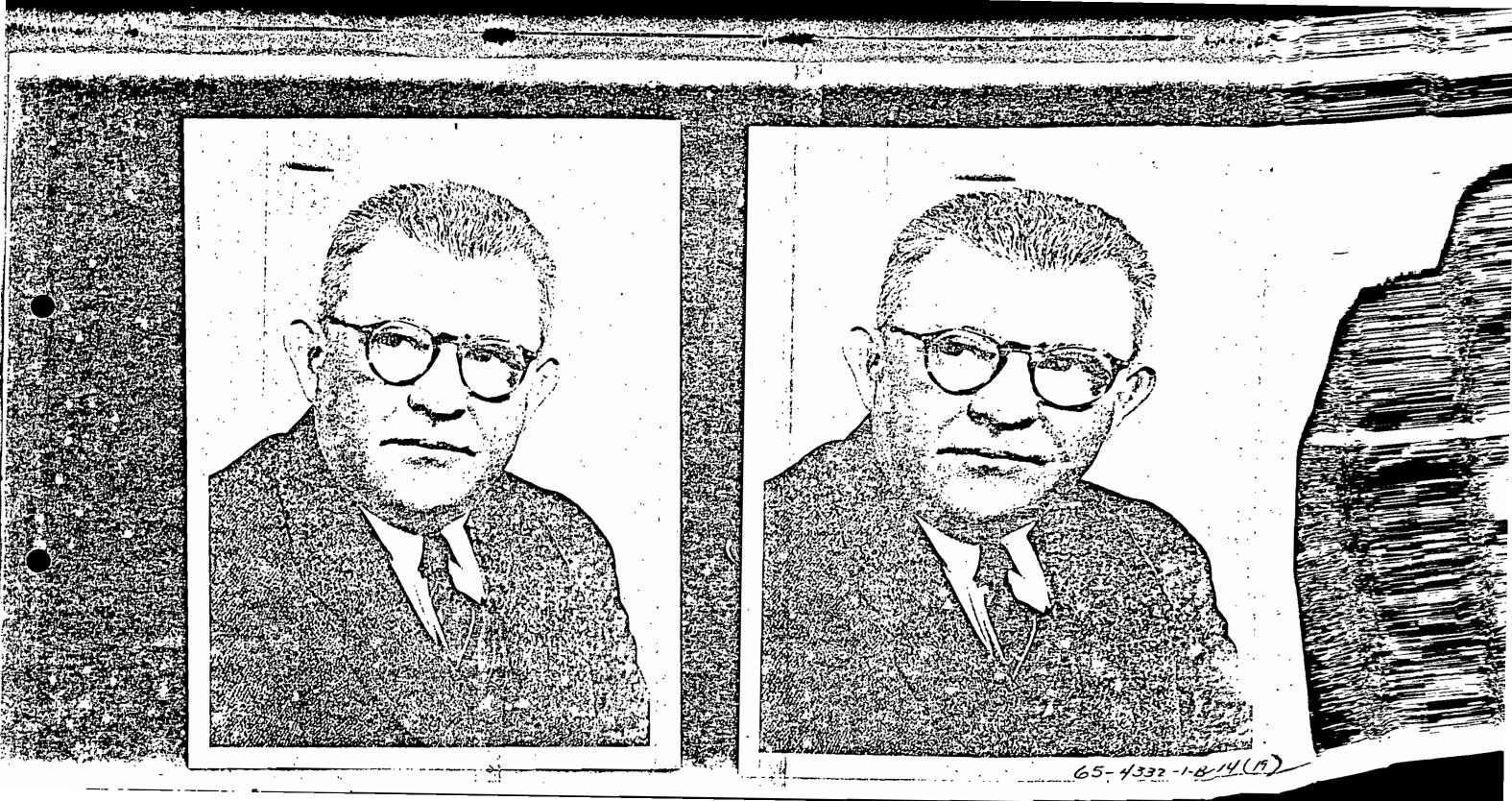
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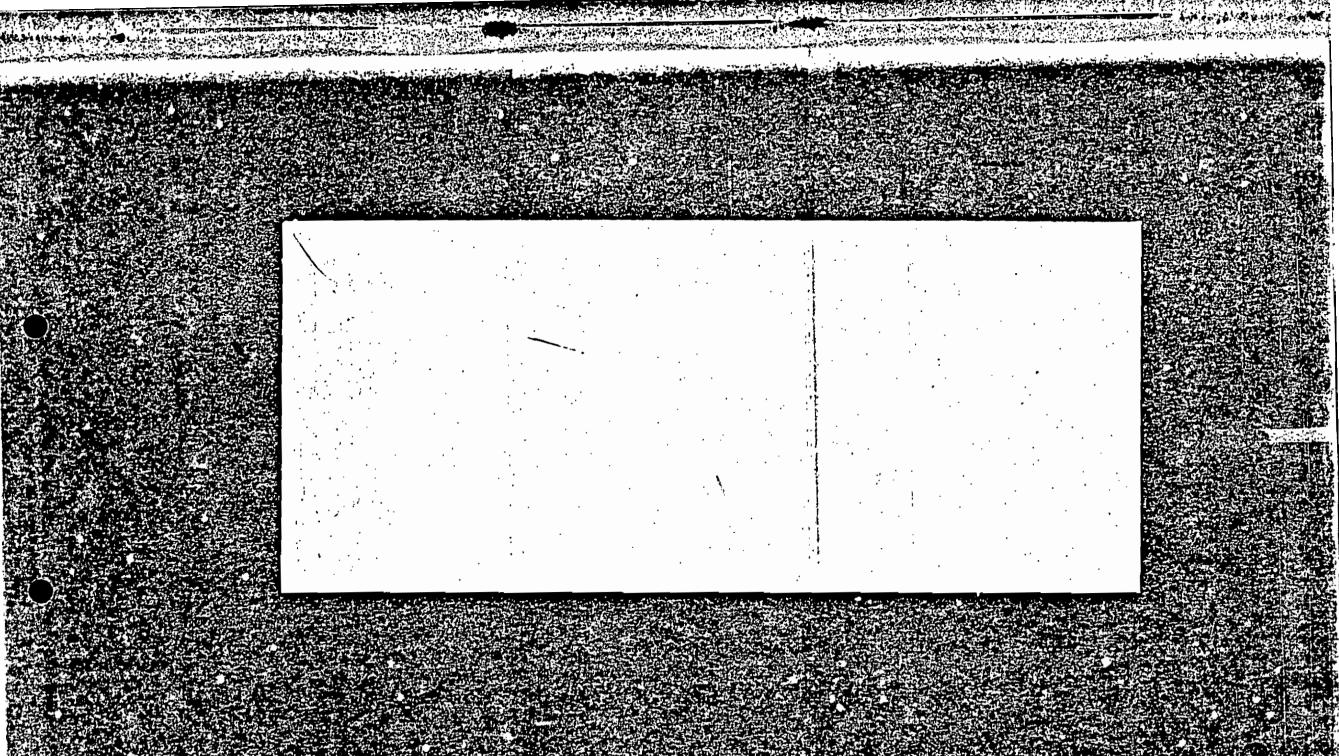
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July 11, 1950 Philadelphia, Pa

I, THOMAS L. BLACK, have received the following of my personal property from WILLIAM B. WELTE, JR. and ROBERT W. HOLNES, Special Agents of the Federal Bureau of Investigation:

A book containing loose patent orders and a patent order blank.

A book entitled, "Organic Chemistry" by JAMES B. CONANT.

A book entitled, "Surface Active Agents" by SCHWARTZ and PERRY.

A package of paper clips containing what appears to be 6 small petrified substances.

A 1950 Diary.

Manila envelope containing miscellaneous papers.

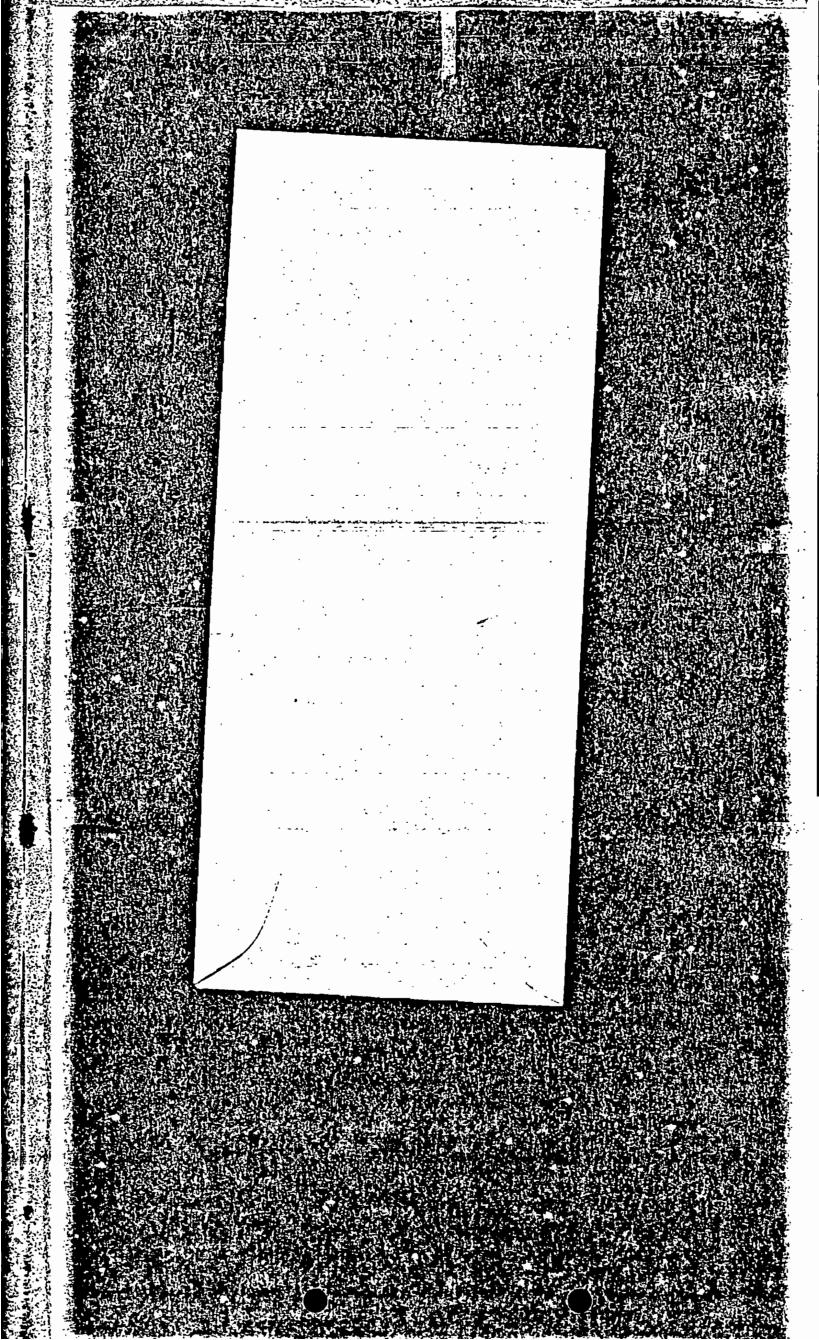
A business card of HENRY NEWSTEIN, 820 West Diamond, Phila., Pa.

A business card of HENRY NEWSTEIN.

thomas L. (THOMAS L. BLACK)

Witnessed: William B. W. O. She Gent, J. B. 1 Phile, Pa

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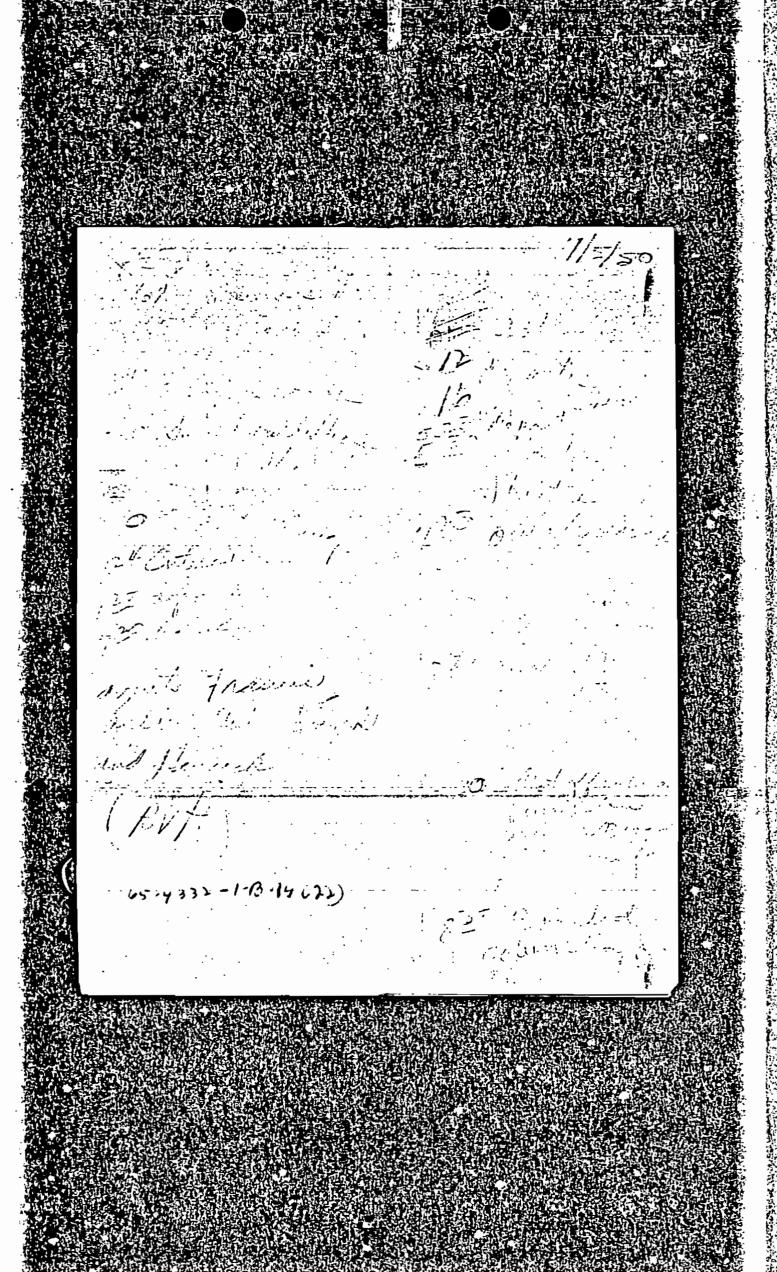


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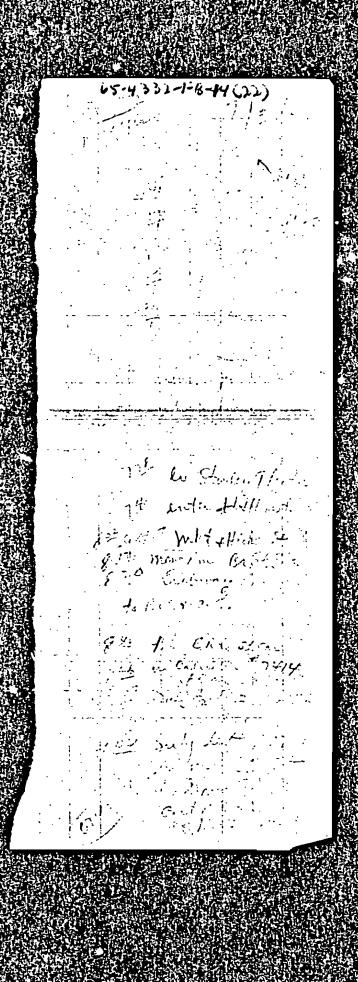
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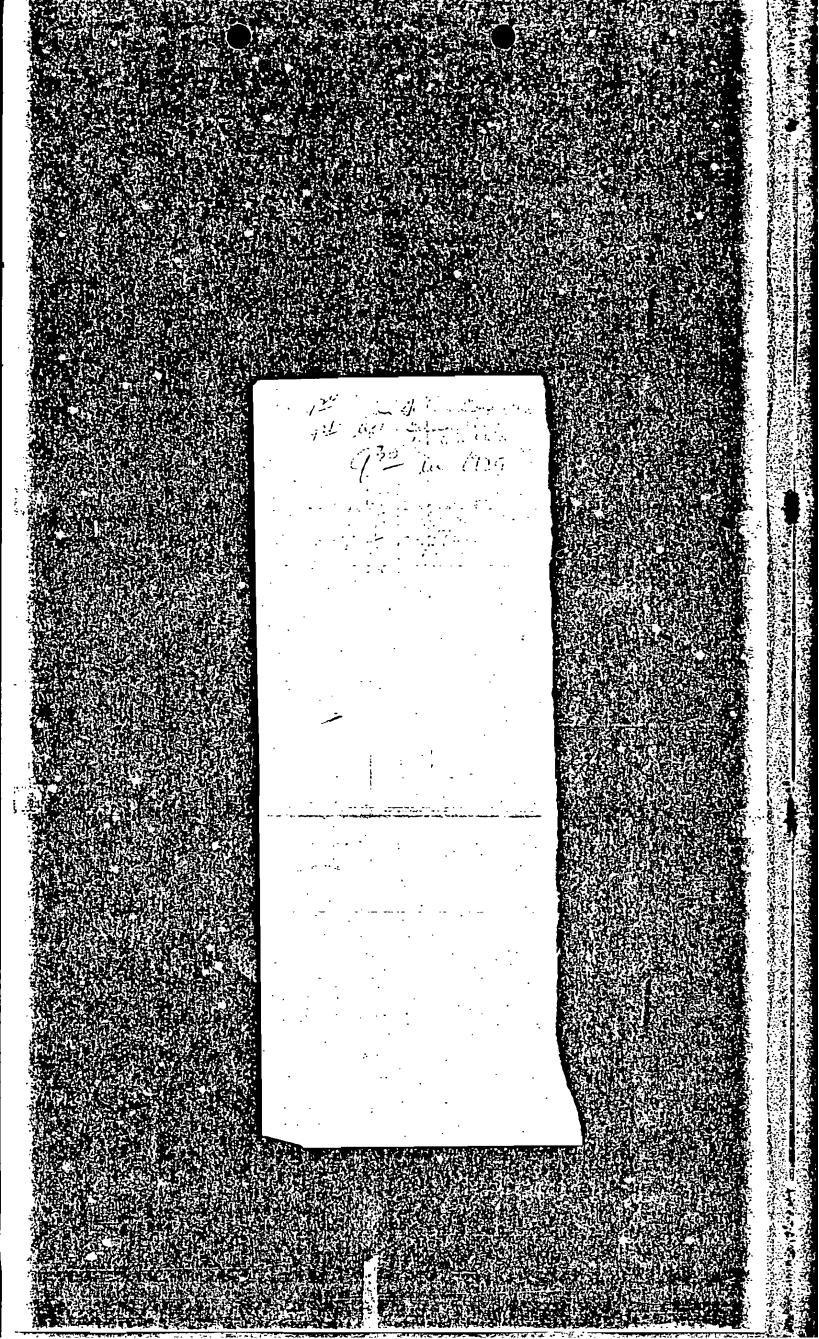
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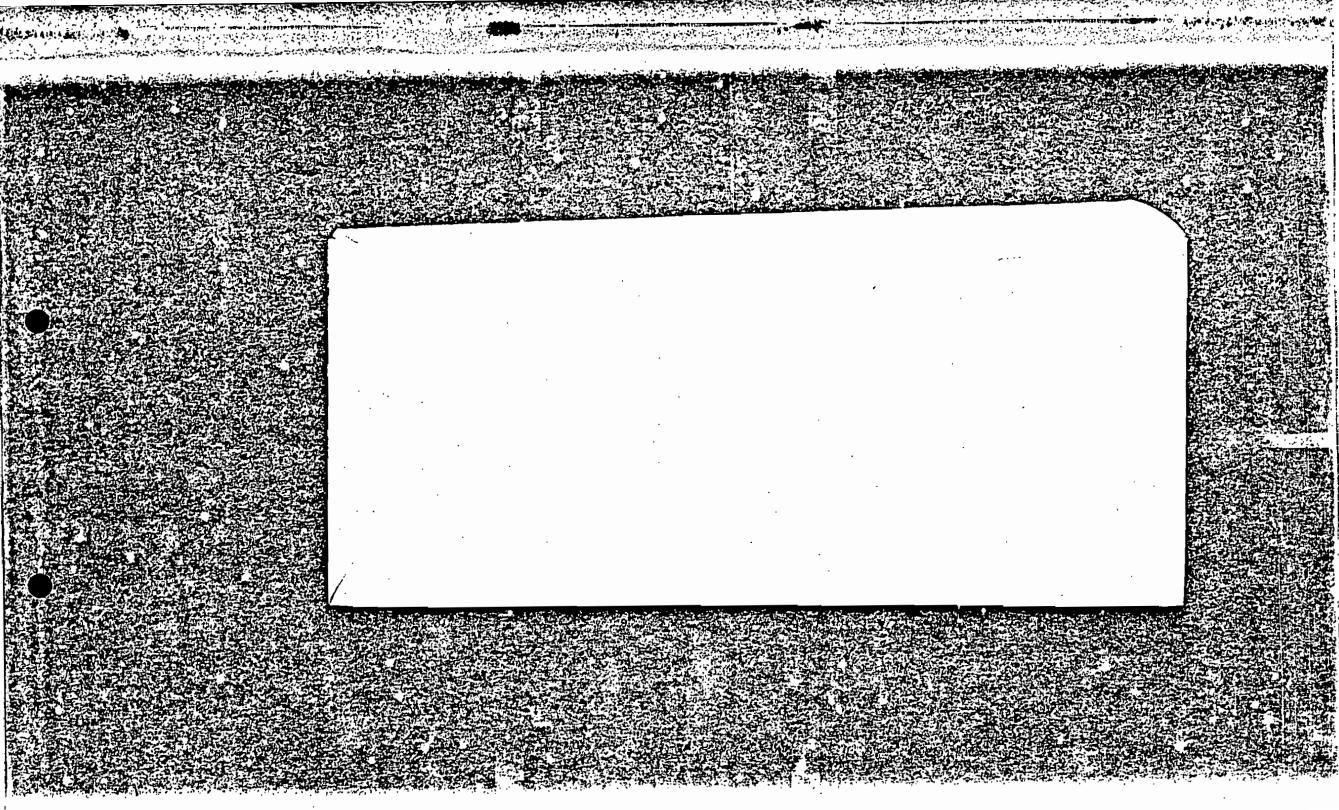
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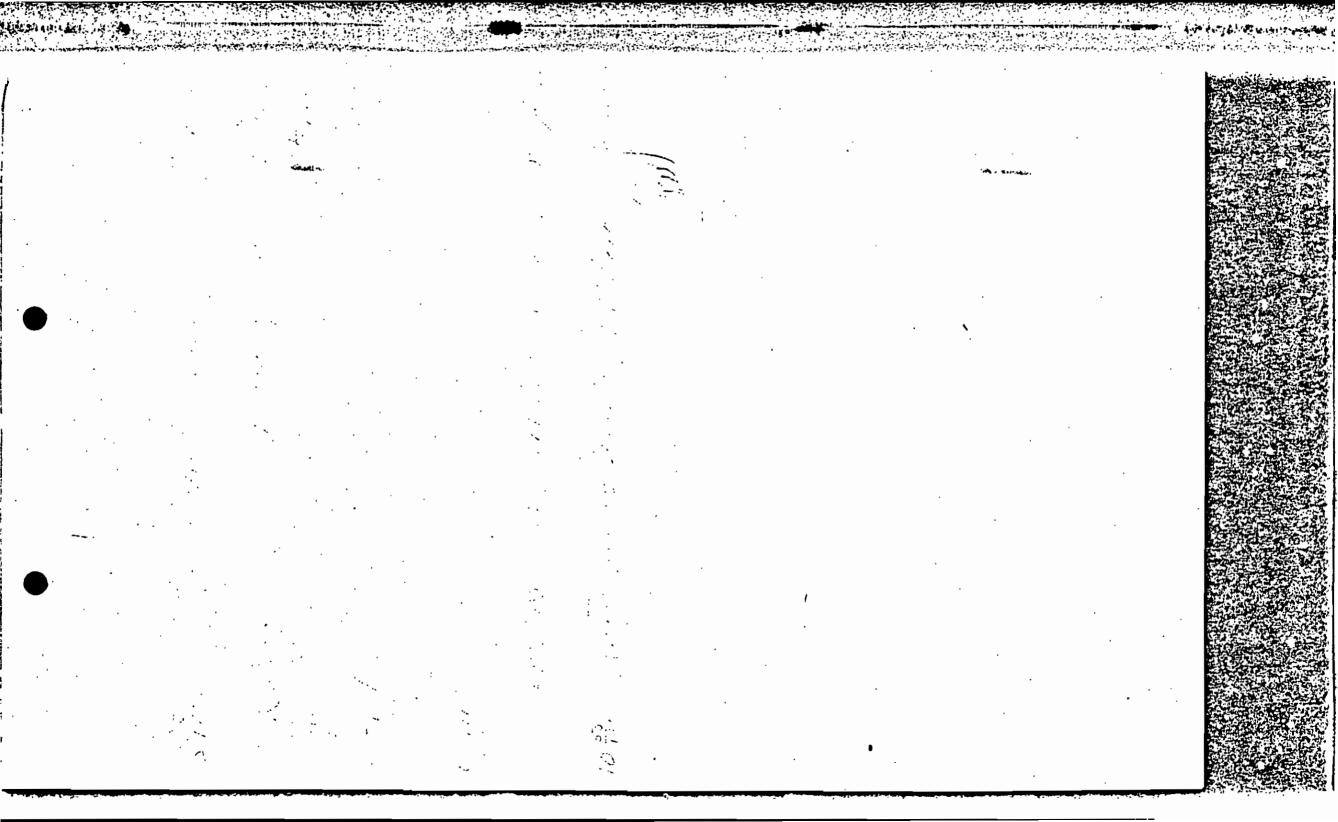
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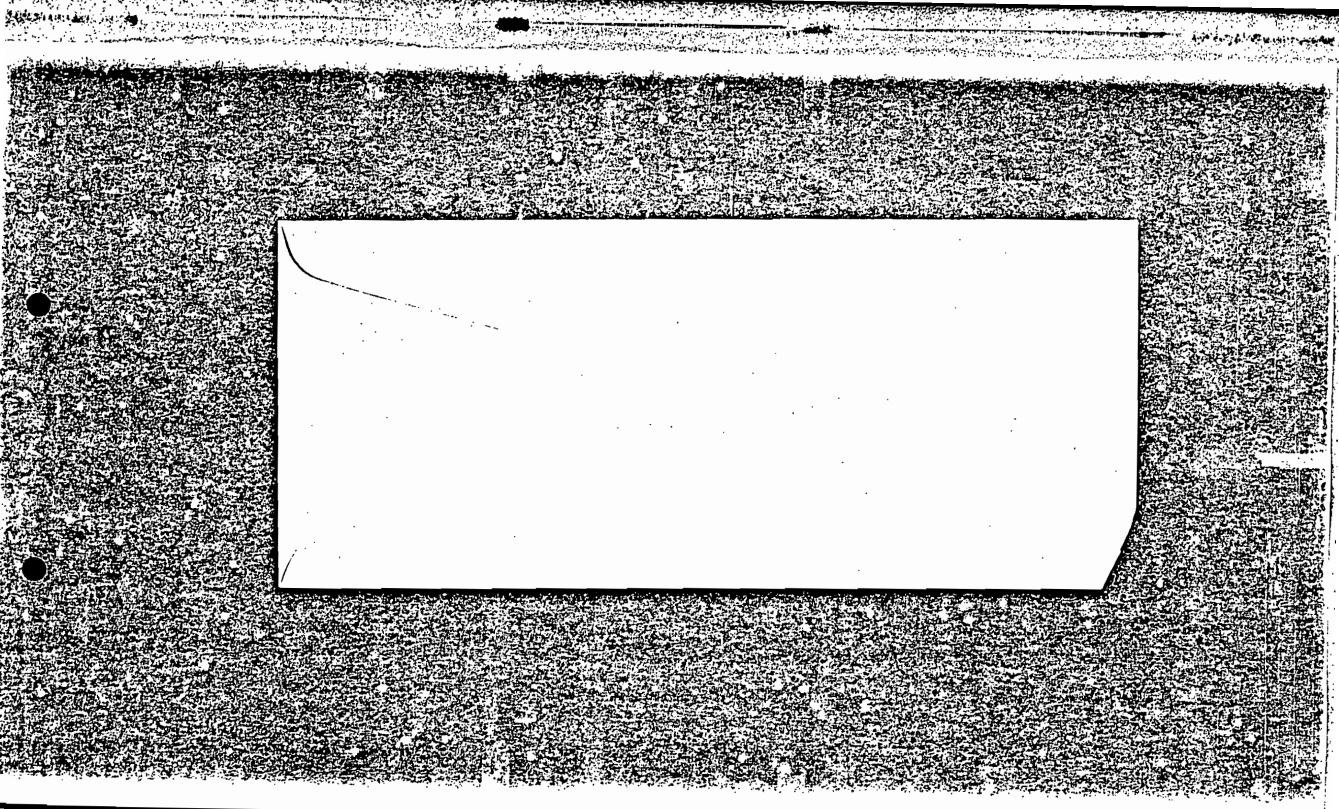
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Date Received 7-12-50

From Zhor, L. Black (Name of Contributor)

1929 N 68 St. Phila.

(Address of Contributor)

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By SAS Rebert W. Holmes

(Name of Special Agent)

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Description: 2 receipts for material returned to Black.

File No. 65-4332-1-B-14(25)





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July 12, 1950 Philadelphia, Pa.

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An advertisement containing pencilled formulas.

Black check book of the Industrial Trust Company.

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Thomas Sheet

(THOWAS L. BLACK)

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July 12, 1950 Philadelphia, Fa.

HOLLIES, and ROBERT W. Investigation. Book entitled, "Organic Syntheses, Collective Volume I.

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(THOMAS L. BLACK)

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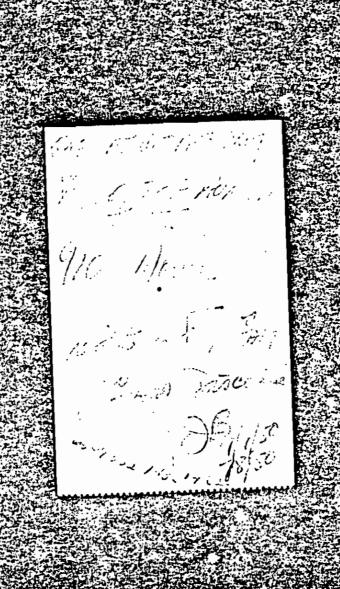
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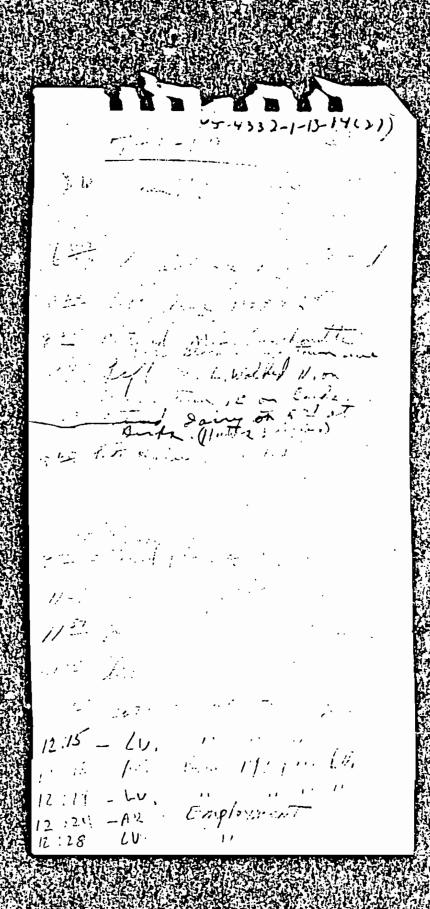
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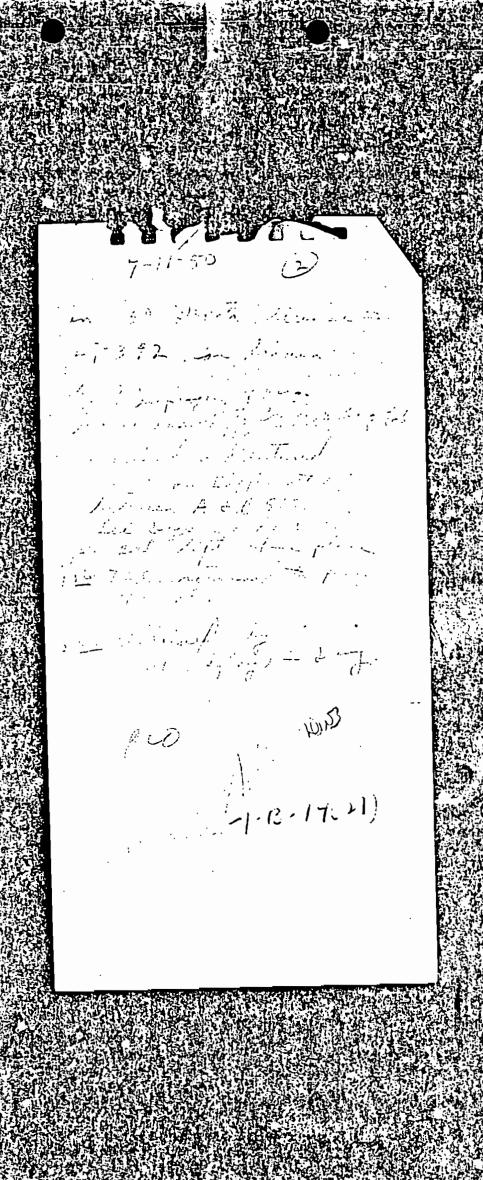
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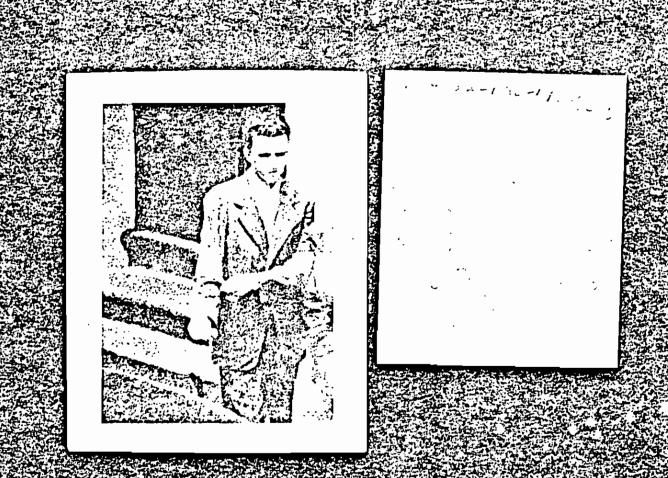
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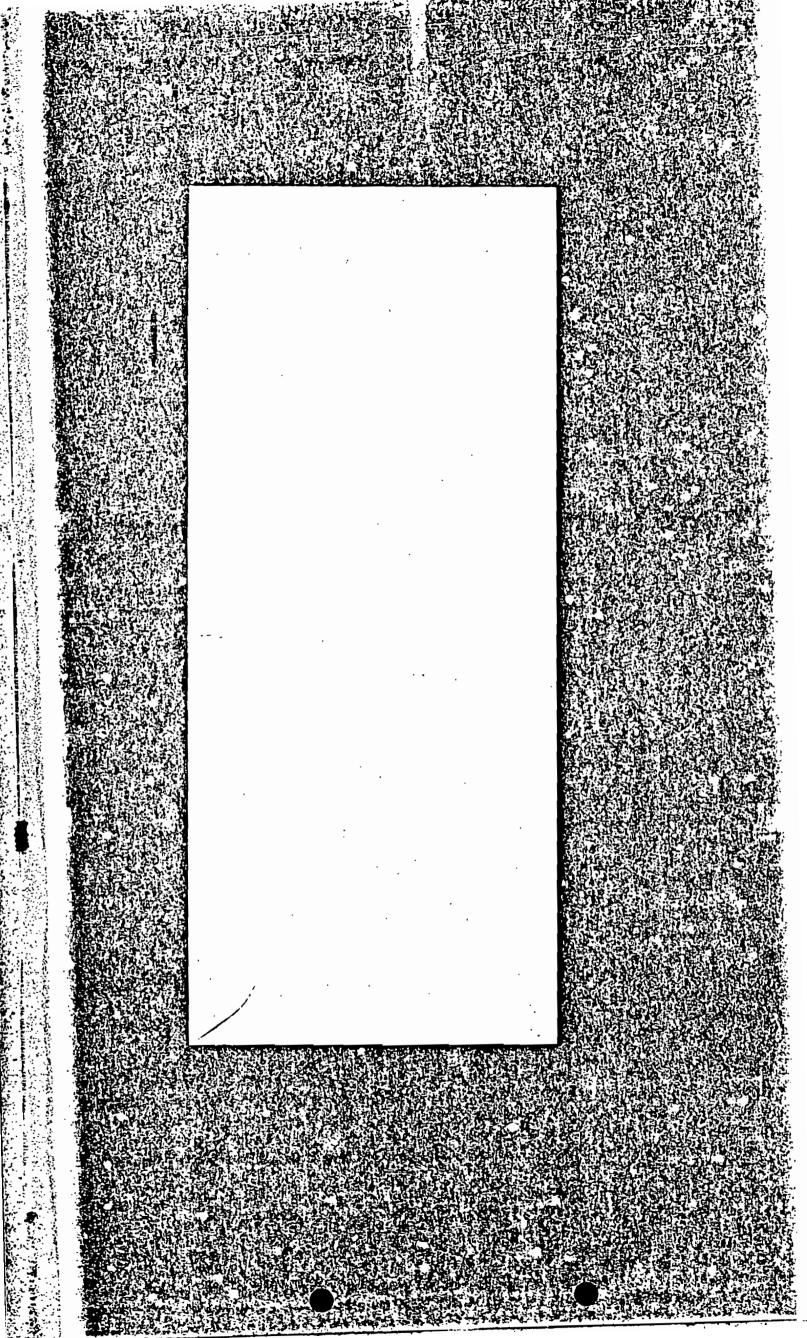
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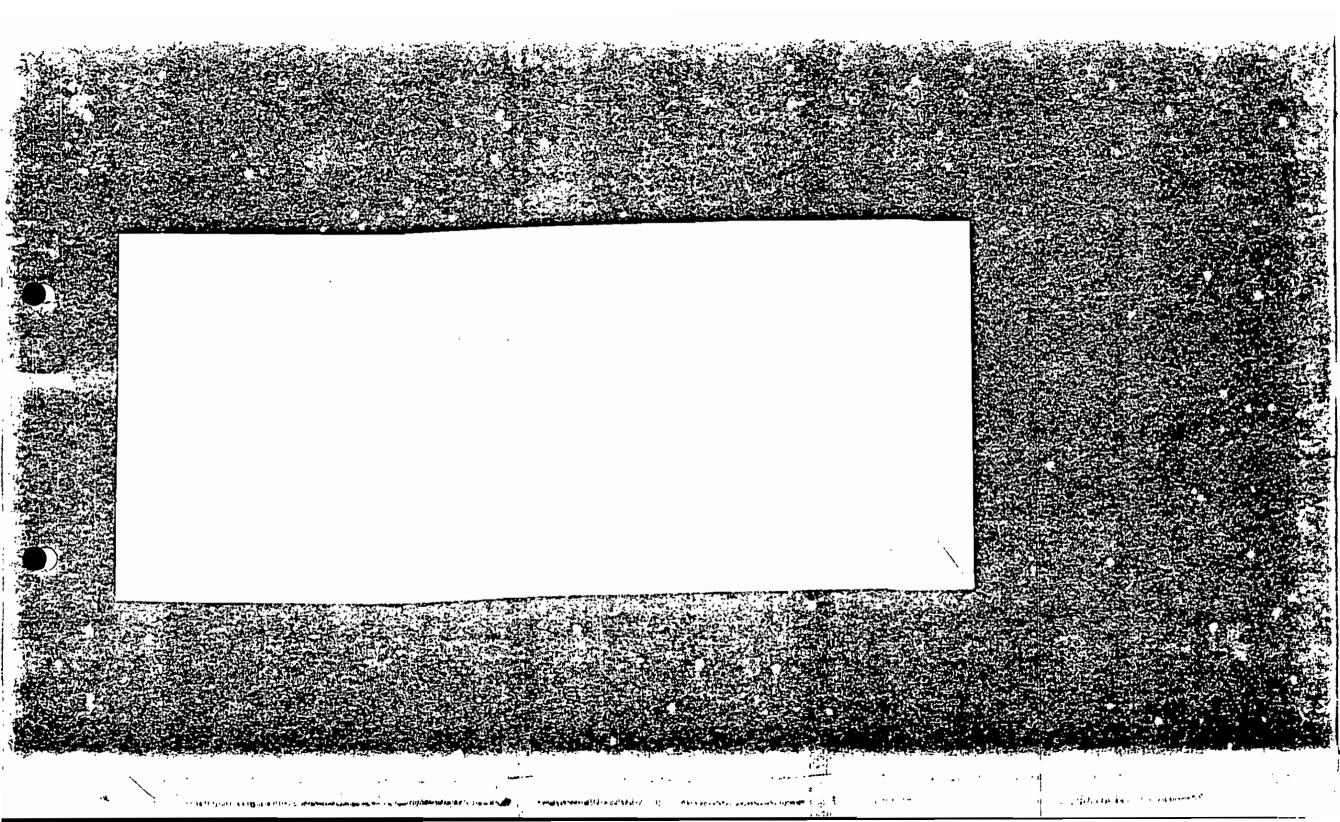


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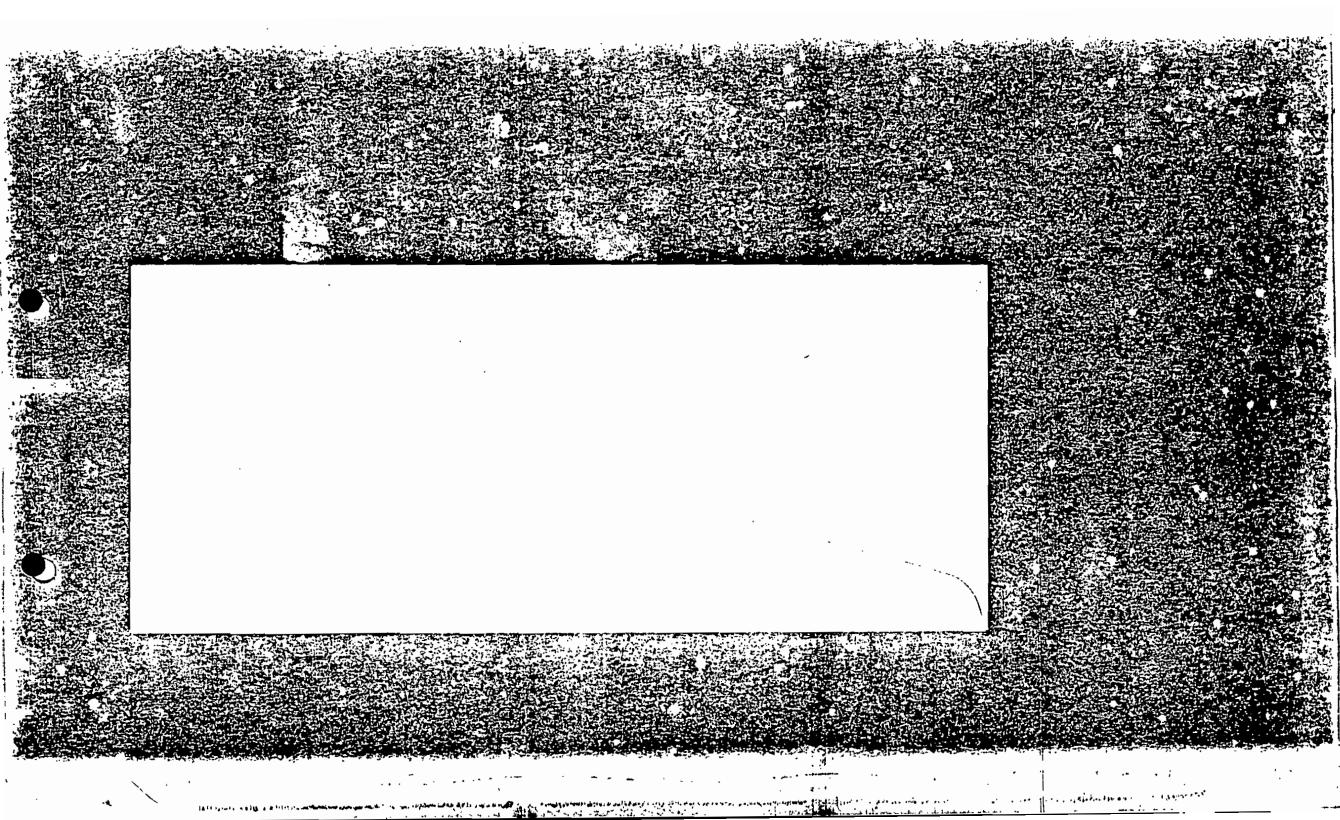
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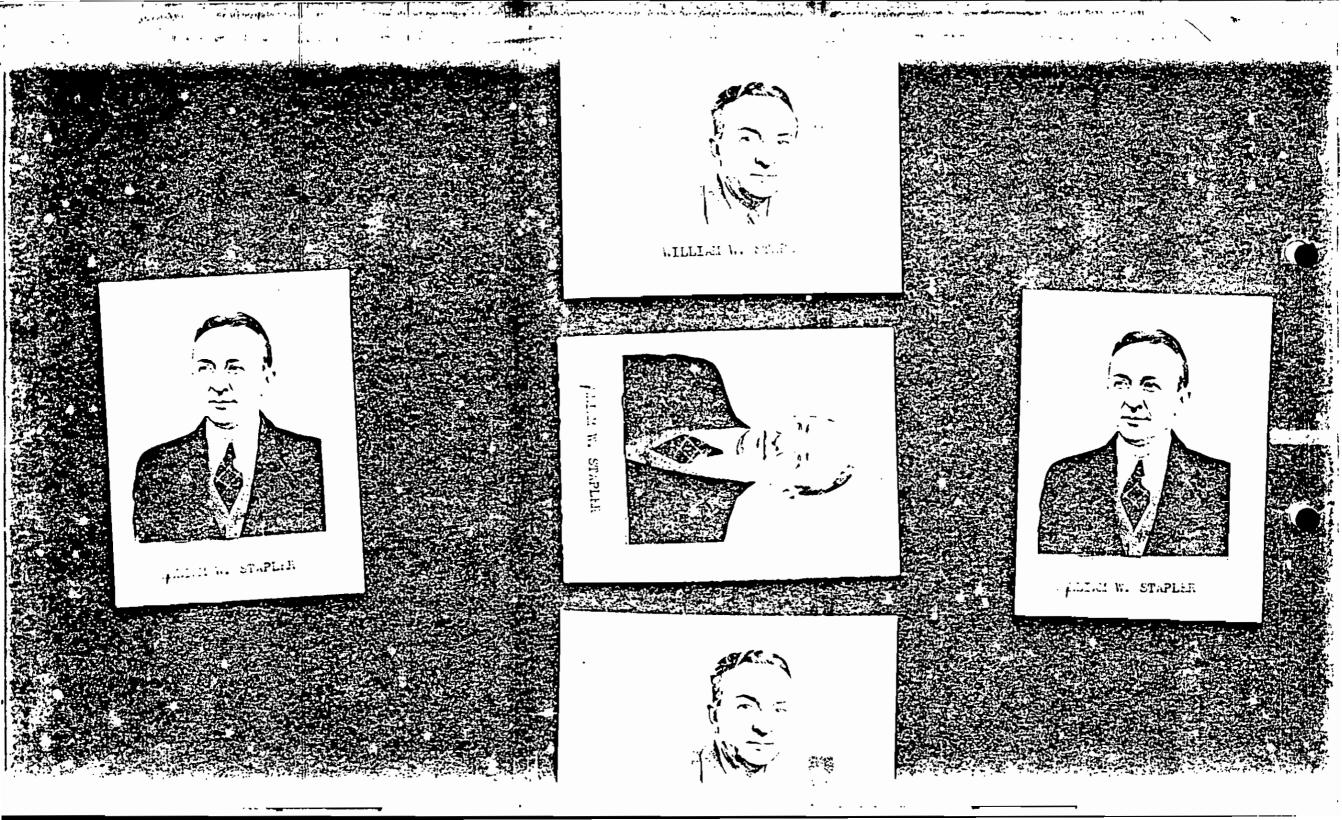
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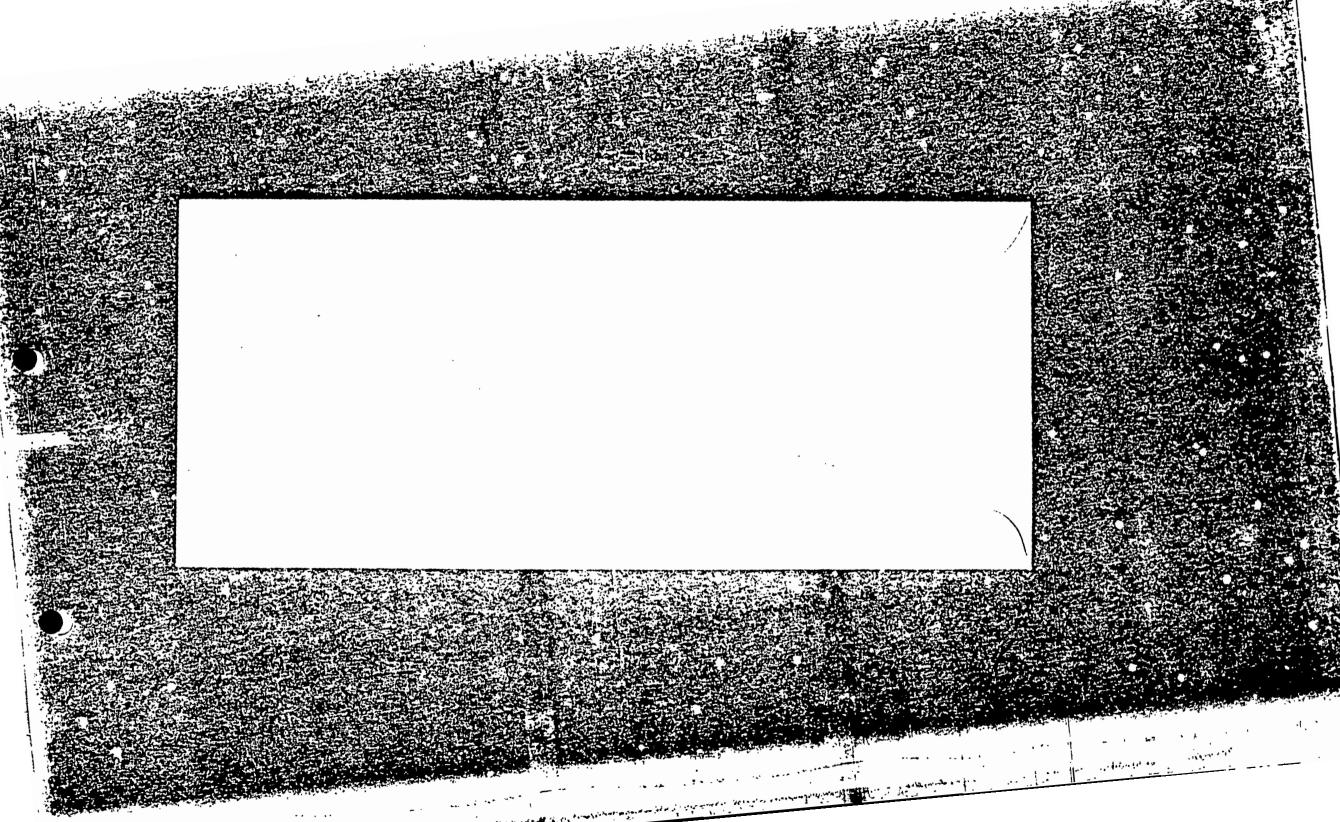
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Dr. Percy A Wells.

Director Fastin Regional Research Loverstony

.... A.L. Pierze

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in in (for use as returne unterial) Discription: One copy of US Blent # 2,121,533 Modhod of corrying out Certain Oxidative Formentation Processes by Bularia.

65-4332-1-B (4 (34)

65-14832 1-8-14(34) 2,121,533 UNITED STATES PATENT OFFICE 2.121.533 METHOD OF CARRYING OUT CERTAIN ONIDATIVE FERMENTATION PROCESSES DY LACTERIA Percy A. Wells, Arlington, Va., Lewis B. Lock-wood and Joseph J. Stubbs, Washington, D. C., assignors to Henry A. Wallace, Secretary of Agriculture of the United States of America, and his successors in office No Drawing. Application April 12, 1937, Serial No. 136,270 3 Claims. (Cl. 195-19) (Granted under the act of March 3, 1883, as amended April 30, 1923; 270 O. G. 757) This application is made under the act of out at atmospheric pressure, but otherwise under March 3, 1903, as amended by the act of April identical conditions. 30, 1922, and the invention herein described and While our process would appear to correspond claimed, if patented, may be manufactured and to the teaching of May, et al. (U. S. 2,006,030) it 5 used by or for the Government for governmental is applied to the oxidation of polyhydric alcohols. 3 by film forming bacteria such as those of the Acetobacter group, rather than the oxidation of purposes without the payment to us of any royalty thereon. Our invention relates to the method of car carbohydrates by mold fungi. rying out oxidative fermentation of aliphatic <sup>19</sup> polyhydric alcohols by bacteria growing in a sub-The following examples illustrate our preferred method of carrying out our process, but we do not 10 wish to restrict ourselves thereto, since it is obmerged condition, under pressures greater than atmospheric. vious that other forms of apparatus could be used, so long as provision is made for maintain-ing a pressure greater than atmospheric. It has been known for many years that certain bacteria, for example, the Acetebacter group of bacteria, exert a strong oxidizing reaction on the Likewise, we do not wish to restrict curselves to 15 the use of bacteria of the Accionater group, since it is well known that other species of film substrate on which they are grown, and for this reason they have been employed industrially for the exidation of allowes to their corresponding forming bacterio possess similar oxidizing characteristics. aldonic acids, as for example, glucose to gluconic acid: polyhydroxy alcohols to ketones, as for example, d-sorb.tol to 1-sorbose and glycerine to diaydroxyacetone. It is known that these bac-Example 1.-3200 cc. of solution containing 350 20 grams of d-sorbitol and 16 grams of Difco yeast extract were placed in a 6 liter Florence flask and sterilized. After sterilization the solution was inoculated with 200 cc. of a suspension of an active culture of a film forming bacteria of the 25 teria, which are ordinarily cultivated in surface films, will grow normally and ferment actively in 25 a submerged state in fermentation liquors if they are well agitated and aerated. Thus Kluyver and Accrobacter group. The inoculated solution was Scheffer have patented a process (U.S. 1.833,716) then transferred to a rotary drum fermenter. A for the production of dihydroxyacetone from giveerol by bacteria of the Acetobacter group in which high yields of the product are obtained within 24 hours, provided the fermenting liquor known constant flow of air at atmospheric pressure was passed through the fermenter, and the solution was agitated. A temperature of 30° was 30 maintained throughout the entire fermentation period. The course of the fermentation was folis well agrated. Currie and Finlay have obtained a patent (U. S. 1,908,225) in which the novel lowed by analysis of samples taken at intervals during the fermentation. After a period of 28 hours, the contents of the fermenter were anafeatures consist of high speed agitation, the mix-35 inc of large quantities of air with the culture liquid and the production of gluconic acid from glucose; of dihydroxyactone from glycerol by 316 grams of 1-sorbose were produced, equivalent to a theoretical yield of 91.2%.

Example 2.—The same conditions were used as submerged growths of bacteria of the Acetobacter croup in the foamy liquid so produced.

Our invention differs from the foregoing teachin Example 1, except that a gauge pressure of 30 40 pounds was maintained and the fermentation ings in that we have found that by treating a nutrient lieuor, containing various organic or period was shortened to 17 hours. 333 grams of 1-sorbose were produced, equiva-lent to a theoretical yield of 96.2%. inorganic constituents, along with varying concentrations of the polyhydric alcohol to be oxi-dized, with a suspension of an active culture of Example 3.—The same conditions were used as 45 bacteria of the genus Acetobacter, and maintainin Example 1, except that 320 grams of glycerine were used instead of d-sorbitol. The duration of ing the culture liquid under pressures of gases, the fermentation period was 35 hours. 275 grams containing substantial quantities of oxygen, such 50 as air, above that of the atmosphere, and at the of dihydroxyacetone were produced, equivalent to 50 a theoretical yield of 37.9%. same time agitating the solution in any suitable Example 4.—The same conditions were used as in Example 3, except that a gauge pressure of manner, and passing the air through it, the yields of compounds produced by the oxidation of the 30 pounds was maintained and the duration of polyhydric alcohols are greatly increased and the

55 fermentation time decreased over those carried

the fermentation was shortened to 32 hours.

301 grams of dihydroxyacetone were produced, equivalent to a theoretical yield of 96.1%.

Having thus described our invention, what we claim for Letters Patent is:

A process for carrying out oxidative fermentations, comprising inoculating an aqueous aliphatic secondary polyhydric alcohol solution containing a nutrient with bacteria of the genus Acetobacter, maintaining aeration and agitation of the inoculated solution, the while maintaining the same under superatmospheric pressure of gases containing substantial quantities of oxygen.

A process for preparing a ketone from an aliphatic secondary polyhydric alcohol, comprising inoculating an aqueous aliphatic secondary polyhydric alcohol solution containing a nutrient

with bacteria of the renus Acetobacter, maintaining aeration and agitation of the inoculated solution, the while maintaining the same under superatmospheric pressure of gases containing substantial quantities of oxygen.

3. A process for the manufacture of 1-sorbose from d-sorbitol, comprising inoculating an aqueous d-sorbitol solution containing a nutrient with bacteria of the genus Acetebacter, maintaining aeration and agitation of the inoculated solution, 10 the while maintaining the same under superatmospheric pressure of gases containing substantial quantities of oxygen.

PERCY A. WELLS.
LEWIS B. LOCKWOOD.
JOSEPH J. STUBBS.

